

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510



I.1  
10/16/02

**FACSIMILE TRANSMISSION**

EPA Region 5 Records Ctr.



227575

**Date:** October 16, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-886-3601**Pages being transmitted, incl. Cover:** 8**CC:****Fax No.:****From:** Steve Komder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☐ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for base of excavation sample from grid location H-6 (sample H6-3) and sidewall samples collected at grid designations K-12 and K-14.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

Steve Komder

DATE REC'D  
IN 7 DICE  
NOTIFICATION  
OF RECEIPT FOR  
VERIFICATION  
S.W. 14

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary****341 East Ohio Street**

Date:10/16/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg) |
|------------------------------|-------------|-------|--------------------------|--|
| K-12                         | 09/04/2002  | 8:15  | vertical                 | 0.001  |
| K-14                         | 09/04/2002  | 8:12  | vertical                 | 0.013  |
| H-6(3)                       | 10/03/2002  | 10:20 | base                     | ND-0.039 <sup>a</sup>                                |
|                              |             |       |                          |  |

**Notes:**

1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.

The location designation for vertical samples indicates the actual sample location.

2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).

Sidewall - Vertical composite of five grab samples from excavation side wall.

3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.

a - Three individual immunoassay tests were run on geoprobe samples collected prior excavation to determine vertical extent of the contaminants. Composite from same strata submitted for lab analysis following excavation.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H6-3

## GC Semivolatiles

Lot-Sample #...: F2J040269-001 Work Order #...: E9FJW1AA Matrix.....: SOLID  
Date Sampled...: 10/03/02 10:20 Date Received...: 10/04/02  
Prep Date.....: 10/07/02 Analysis Date...: 10/10/02  
Prep Batch #...: 2280295 Analysis Time...: 22:05  
Dilution Factor: 1  
% Moisture.....: 19 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 2.1                | ug/kg |
| alpha-BHC             | ND     | 2.1                | ug/kg |
| gamma-BHC (Lindane)   | ND     | 2.1                | ug/kg |
| Chlordane (technical) | ND     | 21                 | ug/kg |
| 4,4'-DDT              | ND     | 2.1                | ug/kg |
| Dieldrin              | ND     | 2.1                | ug/kg |
| Heptachlor            | 7.5    | 2.1                | ug/kg |
| Heptachlor epoxide    | ND     | 8.3                | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 121                 | (52 - 130)         |
| Tetrachloro-m-xylene | 96                  | (60 - 119)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: K-12

## GC Semivolatiles

Lot-Sample #....: F2I050108-004    Work Order #....: E7PPX1AA    Matrix.....: SOLID  
Date Sampled....: 09/04/02 08:15    Date Received...: 09/05/02  
Prep Date.....: 09/06/02    Analysis Date...: 09/10/02  
Prep Batch #....: 2249219    Analysis Time...: 06:13  
Dilution Factor: 10  
% Moisture.....: 13    Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 20                 | ug/kg |
| alpha-BHC             | ND     | 20                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 20                 | ug/kg |
| Chlordane (technical) | ND     | 200                | ug/kg |
| 4,4'-DDT              | ND     | 20                 | ug/kg |
| Dieldrin              | ND     | 20                 | ug/kg |
| Heptachlor            | ND     | 20                 | ug/kg |
| Heptachlor epoxide    | ND     | 39                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

**NOTE(S) :**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: K-14

## GC Semivolatiles

Lot-Sample #....: F21050108-005    Work Order #....: E7PP01AA    Matrix.....: SOLID  
Date Sampled....: 09/04/02 08:20    Date Received...: 09/05/02  
Prep Date.....: 09/06/02    Analysis Date...: 09/10/02  
Prep Batch #....: 2249219    Analysis Time...: 06:42  
Dilution Factor: 10  
% Moisture.....: 11    Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 19                 | ug/kg |
| alpha-BHC             | ND     | 19                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 19                 | ug/kg |
| Chlordane (technical) | ND     | 190                | ug/kg |
| 4'-DDT                | ND     | 19                 | ug/kg |
| Dieldrin              | ND     | 19                 | ug/kg |
| Heptachlor            | ND     | 19                 | ug/kg |
| Heptachlor epoxide    | ND     | 38                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-6 (Sample H6-3)

Date of Verification Survey: 10/3/02

Time of Verification Survey: 10:20 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 10/15/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The ~~attached~~ 10/16/02 Verification Survey documents were reviewed by USEPA, Region 5 on 10/16/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 10/16/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: K-14 (Vertical composite)

Date of Verification Survey: 9/4/02

Time of Verification Survey: 8:12 <sup>(am/pm)</sup>

*(revised lab report for heptachlor epoxide)*  
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 10/15/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 10/16/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix E, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 10/16/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: K-12 (vertical composite)

Date of Verification Survey: 9/4/02

Time of Verification Survey: 8:15 (am)/pm

(revise lab report for heptachlor epoxide)  
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 10/15/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 10/16/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

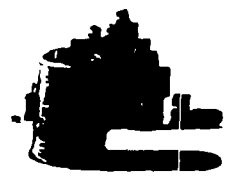
Date: 10/14/02

Print Name: Verneta Simon

Print Title: on-Scene Coordinator

For USEPA Region 5





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 10/16/02  
TO: Steve Koondon  
ORGANIZATION: STS Consultants  
FAX NUMBER: 847 279-2510  
FROM: Vernern Simon  
SUBJECT: 146, k-14, k-12

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 4  
MESSAGE:

## TRANSMIT CONFIRMATION REPORT

|             |   |                 |
|-------------|---|-----------------|
| NO.         | : | 003             |
| RECEIVER    | : | 847 279 2535    |
| TRANSMITTER | : | USEPA REGION 5  |
| DATE        | : | OCT 16'02 11:01 |
| DURATION    | : | 01'56           |
| MODE        | : | STD             |
| PAGES       | : | 04              |
| RESULT      | : | OK              |

# STS Consultants, Ltd.

760 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



01/02  
3.1

## FACSIMILE TRANSMISSION

Date: 10-1-02

Pages being transmitted, Incl. Cover: 6

| To:          | Company Name: | Fax No.:     |
|--------------|---------------|--------------|
| LARRY JENSEN | USEPA         | 312-353-9176 |
|              |               |              |
|              |               |              |
|              |               |              |
|              |               |              |

From: JOHN ANDERSON S.F.S.

FAX 312-755-6022  
Phone:

Re: LIMO 341 E. OHIO

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

### Message:

- \* - C-H.5, 20-24.5 EXCLUSION ZONE
- \* - A-C.5, 21-22 AREA IV PHASE II FINAL
- \* - I-T, 21-24.5 AREA IV PHASE II FINAL
- \* - A-D, 25-27 AREA IV PHASE II FINAL

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United States Environmental Protection Agency  
Region V

77 West Jackson Blvd.  
Chicago, Illinois 60604

Superfund Division  
Emergency Response Branch

FACSIMILE COVER SHEET  
FAX #: 312 353-9176

TO: Dumas Guerrier DATE: 10/1/02

COMPANY: S75 FAX #: 312-755-6022

FROM: Larry Jensen MAILCODE: \_\_\_\_\_

PHONE: 312-886-5026

PAGES (including cover sheet): 6

MESSAGE:

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for September 30, 2002

| Sample ID | Sample Date | Sample Group | Description               | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|---------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 904       | 9/30/02     | EPA          | S1532 G-H.5/20-22.5 EPA#1 | 34.9   | 0.71           | 2.04              | -0.87           | 0.58               | 2.19            | 0.83               | 1.32                  | 1.018331988              |
| 905       | 9/30/02     | EPA          | S1533 G-H.5/20-22.5 EPA#2 | 34.8   | -4.39          | 1.38              | 0.55            | 0.43               | 0.93            | 0.56               | 1.48                  | 0.708045324              |
| 906       | 9/30/02     | EPA          | S1534 G-H.5/20-22.5 EPA#3 | 33.8   | -1.86          | 1.62              | 0.54            | 0.48               | 1.49            | 0.68               | 2.03                  | 0.816088231              |
| 907       | 9/30/02     | EPA          | S1535 G-H.5/20-22.5 EPA#4 | 35.4   | 0.59           | 1.68              | 0.21            | 0.49               | 1.14            | 0.67               | 1.35                  | 0.830060238              |
| 908       | 9/30/02     | EPA          | S1536 G-H.5/20-22.5 EPA#5 | 34.6   | -0.28          | 2.08              | 0.17            | 0.6                | 1.74            | 0.85               | 1.91                  | 1.040432602              |

Average Total Radium (Th-232+Ra-226) Concentration for : G-H.5/20-22.5 = 1.62 pCi/g

| Sample ID | Sample Date | Sample Group | Description                 | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 909       | 9/30/02     | EPA          | S1537 G-H.5/22.5-24.5 EPA#1 | 34.1   | 0.55           | 2.15              | 0.57            | 0.63               | 1.68            | 0.87               | 2.23                  | 1.074150827              |
| 910       | 9/30/02     | EPA          | S1538 G-H.5/22.5-24.5 EPA#2 | 33.9   | 3.13           | 2.3               | -0.2            | 0.65               | 1.96            | 0.91               | 1.76                  | 1.118302285              |
| 911       | 9/30/02     | EPA          | S1539 G-H.5/22.5-24.5 EPA#3 | 33.4   | -0.84          | 2.14              | 0.38            | 0.64               | 1.84            | 0.87               | 2.22                  | 1.080046268              |
| 912       | 9/30/02     | EPA          | S1540 G-H.5/22.5-24.5 EPA#4 | 28.9   | 3.59           | 2.38              | -1              | 0.87               | 2.87            | 0.97               | 1.67                  | 1.17889778               |
| 913       | 9/30/02     | EPA          | S1541 G-H.5/22.5-24.5 EPA#5 | 33.4   | 3.86           | 2.1               | 0.32            | 0.59               | 0.98            | 0.82               | 1.3                   | 1.010198                 |

Average Total Radium (Th-232+Ra-226) Concentration for : G-H.5/22.5-24.5 = 1.84 pCi/g

## Phase II Sand Samples 9/30/02

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 914       | 9/30/02     | EPA Sand     | S1542 A-C.5/21-22 | 32.2   | -3.38          | 2.53              | 0.15            | 0.77               | 1.54            | 1.03               | 1.69                  | 1.286001555              |
| 915       | 9/30/02     | EPA Sand     | S1543 A-B.5/25-27 | 35.1   | -1.58          | 2.17              | 0.95            | 0.85               | -0.07           | 0.85               | 0.88                  | 1.070046728              |
| 916       | 9/30/02     | EPA Sand     | S1544 B.5-D/25-27 | 31.8   | -0.69          | 2.18              | 0.22            | 0.66               | 0.89            | 0.88               | 1.11                  | 1.1                      |
| 917       | 9/30/02     | EPA Sand     | S1545 I-J/21-24.5 | 33.8   | -5.21          | 2.82              | 0.73            | 0.79               | 1.23            | 1.08               | 1.96                  | 1.338095882              |

Minus values treated as 0

Averages G-A.5/20-22.5 1.79 pCi/g  
G-H.5/22.5-24.5 2.08

Sample ID 915 Total Radium 0.95

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I-I, 21-24.5 AREA II PITASK-II  
FINAL SAND

Date of Verification Survey: 9-30-02

Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 10-1-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/1/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Larry Jensen for Verneta Simon Date 10/1/02

Larry Jensen (Print Name)

Senior Health Physicist (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-D, 25-27 AREA II PHASE II  
FINAL SAWD

Date of Verification Survey: 9-30-02

Time of Verification Survey 1:00pm am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 10-1-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/1/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 10/1/02

Larry Jensen (Print Name)

Senior Health Physicist (Print Title)

For U.S. EPA Region V

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-C.5, 21-22 ARRN II PHASE II FINAL SAND  
Date of Verification Survey: 9-30-02  
Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 10-1-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/1/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

*Larry Jensen for Verneta Simon* Date 10/1/02  
Larry Jensen (Print Name)  
Senior Health Physicist (Print Title)

For U.S. EPA Region V



AREA I + IV  
PHASE I EXCLUSION ZONE

FORM 223-1

NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: G-H.5, 20-24.5 EXCLUSION ZONE

Date of Verification Survey: 9-30-02

Time of Verification Survey 1:00pm am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 10-1-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/1/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Larry Jensen for Verneeta Simon Date 10/1/02

Larry Jensen (Print Name)

Senior Health Physicist (Print Title)

For U.S. EPA Region V

# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



10/1/02  
J1

## FACSIMILE TRANSMISSION

Date: 10-1-02

Pages being transmitted, Incl. Cover: 7

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| LARRY JENSEN  | USEPA         | 312-353-9176 |
| VERNITA SIMON |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: JOHN ANDERSON S.T.S. Fax 312-755-6022  
Phone:

Re: LMD 341 E Ohio

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

Message: \* ARMA IV PHASE II FINALS

G-E, 20-24.5

D-G, 22-24.5

G.5-G, 21-22

A-D, 22-25

\* ARMA IV PHASE II EVALUATION ZONE

B.5-D, 23.5-25

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IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY

AREA II PHASE I

FORM 223-1

NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B.5-D, 23.5-25 EXCLUSION ZONE

Date of Verification Survey: 10-1-02

Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 10-1-02

John Anderson (Print Name)

RECORDS MANAGER (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/2/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 10/2/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1

NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:

6-I, 20-24.5 ARNA I + ARNA II Phase II  
FINAL SAND

Date of Verification Survey:

10-1-02

Time of Verification Survey

1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature]

Date 10-1-02

John Anderson

(Print Name)

Regions Manager

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/2/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veeneta Simon

Date 10/2/02

Veeneta Simon

(Print Name)

On-Scene Coordinator

(Print Title)

For U.S. EPA Region V

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: D-6, 22-24.5 AREA II Phase II Final SANDDate of Verification Survey: 10-1-02Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 10-1-02

Tolte Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/2/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veneta Simon Date 10/2/02

Veneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-D, 22-25 AREA II PHASE II  
FINNE SANDDate of Verification Survey: 10-1-02Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

 Date 10-1-02John Anderson (Print Name)Records Manager (Print Title)

STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/2/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

 Date 10/2/02Verneeta Simon (Print Name)On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-5-6, 21-22 AREA II PHASE II FINAL SAND  
Date of Verification Survey: 10-1-02  
Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 10-1-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 10/2/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

*Verneta Simon* Date 10/2/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for October 1, 2002

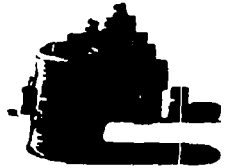
| Sample ID | Sample Date | Sample Group | Description               | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|---------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 920       | 10/1/02     | EPA          | S1546 B.5-D/23.5-25 EPA#1 | 31.9   | 0.08           | 1.59              | 0.07            | 0.47               | 0.12            | 0.63               | 0.19                  | 0.786002549              |
| 921       | 10/1/02     | EPA          | S1547 B.5-D/23.5-25 EPA#2 | 33.8   | 3.15           | 1.86              | -0.15           | 0.46               | 1.43            | 0.64               | 1.28                  | 0.78818242               |
| 922       | 10/1/02     | EPA          | S1548 B.5-D/23.5-25 EPA#3 | 33.9   | -0.05          | 1.51              | 1.05            | 0.44               | -0.34           | 0.57               | 0.71                  | 0.720069441              |
| 923       | 10/1/02     | EPA          | S1549 B.5-D/23.5-25 EPA#4 | 323    | 3.25           | 1.67              | 0.3             | 0.47               | 1.68            | 0.67               | 1.98                  | 0.81841309               |
| 924       | 10/1/02     | EPA          | S1550 B.5-D/23.5-25 EPA#5 | 32.8   | -0.09          | 1.84              | 0.4             | 0.55               | 1.46            | 0.74               | 1.66                  | 0.922008677              |

Average Total Radium (Th-232+Ra-226) Concentration for : B.5-D/23.5-25 = 1.20 pCi/g

## Phase II Sand Samples 10/1/02

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 925       | 10/1/02     | EPA Sand     | S1551 A-D/22-23   | 32.6   | -0.78          | 2.34              | -1.77           | 0.66               | 3.2             | 1.02               | 1.43                  | 1.214907404              |
| 926       | 10/1/02     | EPA Sand     | S1552 A-D/23-25   | 32.8   | 6.63           | 2.9               | -0.01           | 0.78               | -0.55           | 1.07               | -0.56                 | 1.324122351              |
| 927       | 10/1/02     | EPA Sand     | S1553 C.5-G/21-22 | 32.9   | -1.26          | 2.2               | 0.04            | 0.64               | 2.26            | 0.92               | 2.3                   | 1.120714058              |
| 928       | 10/1/02     | EPA Sand     | S1554 D-G/22-23   | 36     | 4.22           | 3.15              | 1.16            | 0.8                | -0.53           | 1.12               | 0.63                  | 1.438802004              |
| 929       | 10/1/02     | EPA Sand     | S1555 D-G/23-24.5 | 33.7   | -7.39          | 1.84              | 1.35            | 0.59               | -0.68           | 0.77               | 0.69                  | 0.970051545              |
| 930       | 10/1/02     | EPA Sand     | S1556 G-I/20-21   | 33.8   | -5.57          | 1.99              | -1.06           | 0.63               | 2.85            | 0.89               | 1.79                  | 1.090412788              |
| 931       | 10/1/02     | EPA Sand     | S1557 G-H/21-24.5 | 32.3   | 0.19           | 2.31              | -0.38           | 0.69               | 1.25            | 0.63               | 0.87                  | 1.158016544              |
| 932       | 10/1/02     | EPA Sand     | S1558 H-I/21-24.5 | 33.9   | -1.98          | 2.16              | 1.5             | 0.64               | 0.43            | 0.64               | 1.83                  | 1.058030303              |





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 10/2/02  
TO: John Andreesen  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Veengeth Simon  
SUBJECT: 341 E Ohio Verification Forms

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  
MESSAGE:

\*\*\* TRANSMISSION REPORT \*\*\*

OCT-02-02 08:32 ID:312 886 0750

JOB NUMBER 911  
 INFORMATION CODE OK  
 TELEPHONE NUMBER 97556022  
 NAME(ID NUMBER)  
 START TIME OCT-02-02 08:29  
 PAGES TRANSMITTED 006 TRANSMISSION MODE ECM  
 RESOLUTION STD REDIALING TIMES 00  
 SECURITY OFF MAILBOX OFF  
 MACHINE ENGAGED 02:47

THIS TRANSMISSION IS COMPLETED.  
 LAST SUCCESSFUL PAGE 006

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY

MESSAGE:  
 NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET) 6  
 SUBJECT: 341 E Ohio Verification Forms  
 FROM: Vengata Simen  
 FAX NUMBER: (312) 755-6022  
 ORGANIZATION: STS  
 TO: John Anderson  
 DATE: 10/2/02  
 PHONE: (312) 353-2318  
 FAX: (312) 353-9176

FACSIMILE COVER PAGE

EMERGENCY RESPONSE BRANCH  
 REGION 5  
 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Mail Code: SE-5J



# STS Consultants, Ltd.

780 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2540



## FACSIMILE TRANSMISSION

Date:

9-25-02

Pages being transmitted, incl. Cover: 4

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETO Simon | UBEMA         | 312-353-9176 |
| Fred Micke    |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From:

DUMAS

Phone:

FAX 312-755-6022

Re:

TES

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☐ For Signature

Message:

Area IV Phase II

J-N/21-27 and D-J/24.5-27

Final sand - Bottom -

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**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: J-N / 21-27 (AREA II Final Sand)  
Date of Verification Survey: 9-25-02  
Time of Verification Survey 9:00 ampm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

DUMARSAIS J. GUERRIER Date 9-25-02  
DUMARSAIS J. GUERRIER (Print Name)  
Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 9/27/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veeneta Simen Date 9/27/02  
Veeneta Simen (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: D-J / 24.5-27 (AREA W FINAL SAND)

Date of Verification Survey: 9-25-02

Time of Verification Survey 9:30 ampm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA

Signed:

DUMARSAIS J. LUCERNE Date 9-25-02

DUMARSAIS J. LUCERNE (Print Name)

Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V or 9/27/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Venereta Simon Date 9/27/02

Venereta Simon (Print Name)

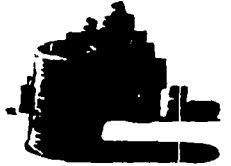
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Phase II Sand Samples for September 25, 2002

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 888       | 9/25/02     | EPA Sand     | S1520 J-N/21-22   | 34.4   | 0.47           | 2.49              | 0.41            | 0.71               | 1.6             | 1                  | 2.0                   | 1.226417547              |
| 889       | 9/25/02     | EPA Sand     | S1521 J-N/22-23   | 35.1   | -3.83          | 1.55              | 1.04            | 0.48               | 0.67            | 0.64               | 1.7                   | 0.8                      |
| 890       | 9/25/02     | EPA Sand     | S1522 J-N/23-24   | 33.2   | -3.09          | 2.18              | 0.71            | 0.64               | 1.78            | 0.91               | 2.49                  | 1.112519883              |
| 891       | 9/25/02     | EPA Sand     | S1523 J-N/24-25   | 33.9   | -1.93          | 1.71              | 1.12            | 0.51               | 0.8             | 0.68               | 1.92                  | 0.85                     |
| 892       | 9/25/02     | EPA Sand     | S1524 J-N/25-26   | 36.5   | -1.49          | 1.62              | 0.1             | 0.47               | 1.21            | 0.84               | 1.31                  | 0.794040301              |
| 893       | 9/25/02     | EPA Sand     | S1525 J-N/26-27   | 33     | -0.9           | 2.52              | 1.67            | 0.75               | 0.68            | 0.99               | 2.35                  | 1.242014493              |
| 894       | 9/25/02     | EPA Sand     | S1526 F-H/24.5-27 | 34.4   | 0.54           | 2.64              | -0.23           | 0.74               | 1.44            | 1.06               | 1.21                  | 1.292745009              |
| 895       | 9/25/02     | EPA Sand     | S1527 D-F/24.5-27 | 35     | -0.59          | 2.38              | -0.23           | 0.7                | 2.21            | 1                  | 1.93                  | 1.220655562              |
| 896       | 9/25/02     | EPA Sand     | S1528 H-J/24.5-27 | 36.4   | -2.61          | 2.08              | 1.86            | 0.62               | -1              | 0.8                | 0.88                  | 1.012126474              |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/27/02  
TO: Dumas  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Verneth  
SUBJECT: 'Area IV Phase II' J-N/21-27 & D-J/24.5-27  
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 3  
MESSAGE:

## TRANSMIT CONFIRMATION REPORT

NO. : 001  
RECEIVER : 97556022  
TRANSMITTER : USEPA REGION 5  
DATE : SEP 27'02 8:10  
DURATION : 01'30  
MODE : STD  
PAGES : 03  
RESULT : OK



# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



9/20/02  
I-1

## FACSIMILE TRANSMISSION

Date: 9-20-02

Pages being transmitted, Incl. Cover: 4

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA Simon | USEPA         | 312-353-9120 |
| FRANK MICKE   |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: JOHN ANDERSON S.T.S. FAX 312-755-6022  
Phone:

Re: LMD 341 E. Ohio

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

### Message:

\* AREA III, PHASE II FINAL (SAND)  
L-N, 11-21 AND I-L, 17-21

\* AREA III PHASE II EXCLUSION ZONE  
I-L, 17.5 - 109

IMPORTANT: This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

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# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for September 19, 2002

| Sample ID | Sample Date | Sample Group | Description               | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|---------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 870       | 9/19/02     | EPA          | S1510 I-J.5/17.5-19 EPA#1 | 35.1   | 1.19           | 1.65              | -0.11           | 0.47               | 0.33            | 0.64               | 0.22                  | 0.794040301              |
| 871       | 9/19/02     | EPA          | S1511 I-J.5/17.5-19 EPA#2 | 34.1   | 2.18           | 2.13              | -0.1            | 0.6                | 1.58            | 0.85               | 1.46                  | 1.040432602              |
| 872       | 9/19/02     | EPA          | S1512 I-J.5/17.5-19 EPA#3 | 32.1   | -1.48          | 1.99              | 0.48            | 0.59               | 0.72            | 0.8                | 1.2                   | 0.994032193              |
| 873       | 9/19/02     | EPA          | S1513 I-J.5/17.5-19 EPA#4 | 35     | -2.74          | 2.04              | 1.04            | 0.82               | 1.11            | 0.83               | 2.15                  | 1.036001931              |
| 874       | 9/19/02     | EPA          | S1514 I-J.5/17.5-19 EPA#5 | 34.2   | 2.8            | 1.81              | -0.38           | 0.45               | 1.07            | 0.62               | 0.71                  | 0.765093989              |

Average Total Radium (Th-232+Ra-226) Concentration for : I-J.5/17.5-19 = 1.15 pCi/g

| Sample ID | Sample Date | Sample Group | Description               | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|---------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 875       | 9/19/02     | EPA          | S1515 J.5-L/17.5-19 EPA#1 | 34     | -0.17          | 1.78              | 0.49            | 0.5                | -0.13           | 0.67               | 0.36                  | 0.836002382              |
| 876       | 9/19/02     | EPA          | S1516 J.6-L/17.5-19 EPA#2 | 33.1   | 1.95           | 2.12              | 0.56            | 0.63               | 2.54            | 0.85               | 3.1                   | 1.058017013              |
| 877       | 9/19/02     | EPA          | S1517 J.5-L/17.5-19 EPA#3 | 34     | -0.65          | 1.9               | 0.82            | 0.55               | 1.35            | 0.73               | 2.17                  | 0.914002168              |
| 878       | 9/19/02     | EPA          | S1518 J.5-L/17.5-19 EPA#4 | 32     | -2.04          | 2.45              | 1.55            | 0.78               | 1.22            | 0.99               | 2.77                  | 1.248078523              |
| 879       | 9/19/02     | EPA          | S1519 J.5-L/17.5-19 EPA#5 | 34     | -0.48          | 2.83              | -0.23           | 0.82               | 2.92            | 1.13               | 2.69                  | 1.396173342              |

Average Total Radium (Th-232+Ra-226) Concentration for : J.5-L/17.5-19 = 2.22 pCi/g

## Phase II Sand Samples 9/19/02

| Sample ID | Sample Date | Sample Group | Description     | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 883       | 9/19/02     | EPA Sand     | S1503 L-N/11-13 | 38     | 0.8            | 1.98              | -0.09           | 0.56               | 1.42            | 0.78               | 1.33                  | 0.980208311              |
| 884       | 9/19/02     | EPA Sand     | S1504 L-N/13-15 | 34.7   | 0.12           | 1.7               | 0.32            | 0.49               | 1.86            | 0.68               | 1.98                  | 0.838152731              |
| 885       | 9/19/02     | EPA Sand     | S1505 L-N/15-17 | 34.7   | 2.55           | 1.87              | 0.54            | 0.52               | 0.93            | 0.71               | 1.47                  | 0.880056816              |
| 886       | 9/19/02     | EPA Sand     | S1506 L-N/17-19 | 32.7   | -0.99          | 1.97              | 0.26            | 0.58               | 0.59            | 0.78               | 0.85                  | 0.97200823               |
| 887       | 9/19/02     | EPA Sand     | S1507 L-N/19-21 | 35.8   | 1.32           | 2.27              | -0.56           | 0.85               | 2.83            | 0.93               | 2.28                  | 1.134636506              |
| 888       | 9/19/02     | EPA Sand     | S1508 I-L/17-19 | 33.7   | 1.2            | 2.2               | -0.12           | 0.81               | 0.44            | 0.83               | 0.32                  | 1.030048543              |
| 889       | 9/19/02     | EPA Sand     | S1509 I-L/19-21 | 34.8   | -1.75          | 2.89              | 0.2             | 0.84               | 1.14            | 1.19               | 1.34                  | 1.456805843              |

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I-L, 17.5-19 ALBA III Phase II EXCLUSION ZONE  
Date of Verification Survey: 9-19-02  
Time of Verification Survey 12:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 9-20-02  
Tolte Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 9/20/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 9/20/02  
Veeneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: L-N, 11-21 + I-L, 17-21 ALPHA III Phase II Final (SAND)

Date of Verification Survey: 9-19-02

Time of Verification Survey 12:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 9-20-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 9/20/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 9/20/02

Verneta Simon (Print Name)

On Scene Coordinator (Print Title)

For U.S. EPA Region V

# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



9/5/02  
Jcl

## FACSIMILE TRANSMISSION

Date: 9-5-02

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| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | USEPA         | 312 353-9176 |
| FRED MCKE     |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: John Anderson S.T.S. Fax 312-755-6022  
Phone:

Re: LMD 341 E. Ohio

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

### Message:

AREA II Phase I  
EXCLUSION ZONE AT L-2.75, 5.75-6.5

**IMPORTANT:** This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: L-4.75, 5.75-6.5

Date of Verification Survey: 9-5-02

Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 9-5-02

Todd Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 9/5/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Verneta Simon Date 9/5/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutraml Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for September 5, 2002

| Sample ID | Sample Date | Sample Group | Description                 | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 797       | 9/5/02      | EPA          | S1457 L-L.75/5.75-6.5 EPA#1 | 24.4   | 2.07           | 2.32              | 1.41            | 0.66               | 1.18            | 0.87               | 2.57                  | 1.082016483              |
| 798       | 9/5/02      | EPA          | S1458 L-L.75/5.75-6.5 EPA#2 | 27.8   | 1.3            | 2.4               | 1.89            | 0.69               | 1.75            | 0.91               | 3.74                  | 1.142015762              |
| 799       | 9/5/02      | EPA          | S1459 L-L.75/5.75-6.5 EPA#3 | 28.1   | 1.54           | 1.87              | 1.75            | 0.57               | 2.58            | 0.77               | 4.34                  | 0.958018789              |
| 800       | 9/5/02      | EPA          | S1460 L-L.75/5.75-6.5 EPA#4 | 27     | -1.01          | 1.84              | 2.21            | 0.57               | 2.21            | 0.76               | 4.42                  | 0.95                     |
| 801       | 9/5/02      | EPA          | S1461 L-L.75/5.75-6.5 EPA#5 | 29.1   | 0.72           | 2.22              | 2.63            | 0.65               | 1.21            | 0.84               | 3.84                  | 1.06212052               |

Average Total Radium (Th-232+Ra-226) Concentration for : L-L.75/5.75-6.5 = 3.78 pCi/g

\*\*\* TRANSMISSION REPORT \*\*\*

SEP-05-02 12:09 ID:3123532034

TECH TEST

JOB NUMBER

419

INFORMATION CODE

OK

TELEPHONE NUMBER

97556022

NAME (ID NUMBER)

START TIME

SEP-05-02 12:08

PAGES TRANSMITTED

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LAST SUCCESSFUL PAGE 002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

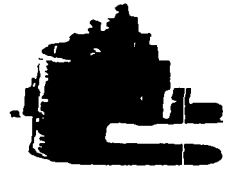
PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/5/02  
TO: John Andersen  
ORGANIZATION: STS Consultants  
FAX NUMBER: (312) 755-6022  
FROM: Vernex Simon  
SUBJECT: L-4.75, S.75-6.5

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2  
MESSAGE:

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY





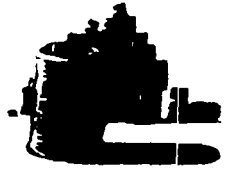
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/6/02  
TO: John Anderson  
ORGANIZATION: STS Consultants  
FAX NUMBER: (312) 755-6022  
FROM: Verneta Simon  
SUBJECT: Area II - Phase II L-N, I-L, etc

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 3  
MESSAGE:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/5/02  
TO: John Andersen  
ORGANIZATION: STS Consultants  
FAX NUMBER: (312) 755-6022  
FROM: Vernex Simon  
SUBJECT: L-L75, 5.75-6.5

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2  
MESSAGE:

8/30/02  
2.1

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-E, 10-21 HAZARDOUS PHASE II FINISH  
(SAND)  
Date of Verification Survey: 8-30-02  
Time of Verification Survey 9:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-30-02  
John Anderson (Print Name)  
RECORDS MANAGER (Print Title)



STB Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/30/02  
Veneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I-L, 9.5-11 AREA II PHASE II FINAL  
SAND  
Date of Verification Survey: 8-30-02  
Time of Verification Survey 9:00am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-30-02  
Todd Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/30/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I-5-L, 1-9.5. AREA II PHASE II FINAL (SAND)  
Date of Verification Survey: 8-30-02  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-30-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/30/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



## FACSIMILE TRANSMISSION

Date: 8-30-02

Pages being transmitted, Incl. Cover: \_\_\_\_\_

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | USEPA         | 312-353-9176 |
| AND MICKA     |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: John Anderson S.T.S. Fax 312-755-6022  
Phone: \_\_\_\_\_  
Re: LMD 341 E. OHIO

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

### Message:

\* AREA I, PHASE II FINAL (SAND)

C50E, 10 TO 21

\* AREA II, PHASE II FINAL (SAND)

I-L, 9.5-11

\* AREA II, PHASE II FINAL (SAND)

I.5-L, 1-9.5

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**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Phase II Sand Samples for August 30, 2002

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 776       | 8/30/02     | EPA Sand     | S1442 J.5-L/1-4   | 35.7   | -3.56          | 2.32              | 0.57            | 0.71               | 0.91            | 0.96               | 1.48                  | 1.1940268                |
| 777       | 8/30/02     | EPA Sand     | S1443 J.5-L/4-7   | 36.8   | -1.13          | 2.58              | 1.64            | 0.79               | 0.35            | 1.03               | 1.99                  | 1.298075499              |
| 778       | 8/30/02     | EPA Sand     | S1444 J.5-L/7-9.5 | 35.6   | 1.75           | 3                 | -0.84           | 0.88               | 2.85            | 1.26               | 2.01                  | 1.536879956              |
| 779       | 8/30/02     | EPA Sand     | S1445 I-L/9.5-11  | 35.3   | 4.71           | 2.36              | -0.44           | 0.66               | 1.43            | 0.89               | 0.99                  | 1.108016245              |
| 780       | 8/30/02     | EPA Sand     | S1446 C-E/10-12   | 38     | -0.19          | 2.18              | 0.66            | 0.66               | 0.2             | 0.85               | 1.06                  | 1.078150547              |
| 781       | 8/30/02     | EPA Sand     | S1447 C-E/12-14   | 41.8   | 3.25           | 1.81              | -0.01           | 0.51               | 0.29            | 0.68               | 0.28                  | 0.65                     |
| 782       | 8/30/02     | EPA Sand     | S1448 C-E/14-16   | 40.6   | 3.5            | 2.29              | 0.63            | 0.64               | 1.21            | 0.86               | 1.84                  | 1.072007483              |
| 783       | 8/30/02     | EPA Sand     | S1449 C-E/16-18   | 36.7   | -2.92          | 2.93              | 0.23            | 0.9                | 0.27            | 1.21               | 0.5                   | 1.508011936              |
| 784       | 8/30/02     | EPA Sand     | S1450 C-E/18-20   | 36.3   | 1.17           | 2.7               | 0.36            | 0.76               | 0.65            | 1.04               | 1.01                  | 1.288099375              |
| 785       | 8/30/02     | EPA Sand     | S1451 C-E/20-21   | 33     | -2.35          | 1.77              | 0.15            | 0.53               | 2.96            | 0.76               | 3.11                  | 0.926552751              |

United States Environmental Protection Agency  
Region V



77 West Jackson Blvd.  
Chicago, Illinois 60604

Superfund Division  
Emergency Response Branch

FACSIMILE COVER SHEET  
FAX #: 312 353-9176

TO: John Anderson DATE: 8/30/02

COMPANY: STS FAX #: (312) 755-6022

FROM: Vernata Simon MAILCODE: SE-51

PHONE: (312) 886-3601

PAGES (including cover sheet): 4

MESSAGE:



\*\*\* TRANSMISSION REPORT \*\*\*

AUG-30-02 14:54 ID:3123532034

TECH TEST

JOB NUMBER 387  
INFORMATION CODE OK  
TELEPHONE NUMBER 97556022  
NAME(ID NUMBER)  
START TIME AUG-30-02 14:51  
PAGES TRANSMITTED 004 TRANSMISSION MODE ECM  
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MACHINE ENGAGED 02'54

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LAST SUCCESSFUL PAGE 004



United States Environmental Protection Agency  
Region V  
77 West Jackson Blvd.  
Chicago, Illinois 60604

Superfund Division  
Emergency Response Branch

FACSIMILE COVER SHEET  
FAX #: 312 353-9176

TO: John Anderson DATE: 8/30/02  
COMPANY: STS FAX #: (312) 755-6022  
FROM: Vernata Simon MAILCODE: SE-53  
PHONE: (312) 886-3601  
PAGES (including cover sheet): 4  
MESSAGE:

I.1  
08/26/02

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I.5-K, 7.5-11 AREA # Phase I  
Exclusion Zone

Date of Verification Survey: 8-26-02

Time of Verification Survey 8:30 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-26-02

John Anderson (Print Name)

Leonard Manning (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on Aug. 27, 2002. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 8/27/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I.5 - J.5, 1 - 9.5 Area II Phase II Final  
Date of Verification Survey: 8-26-02 sand  
Time of Verification Survey 8:30 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-26-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on Aug. 27, 2002. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 8/27/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for August 26, 2002

| Sample ID  | Sample Date | Sample Group | Description              | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|--|-------------|--------------|--------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 763  | 8/26/02     | EPA          | S1437 I.5-K/9.5-11 EPA#1 | 36.4   | 4.52           | 1.39              | -0.5            | 0.38               | 0.98            | 0.51               | 0.48                  | 0.636003145              |
| 764  | 8/26/02     | EPA          | S1438 I.5-K/9.5-11 EPA#2 | 37.5   | -0.64          | 2.11              | 0.8             | 0.83               | 1.44            | 0.84               | 2.04                  | 1.05                     |
| 765  | 8/26/02     | EPA          | S1439 I.5-K/9.5-11 EPA#3 | 37.7   | -1.35          | 2.22              | 0.11            | 0.65               | 2.13            | 0.91               | 2.24                  | 1.118302285              |
| 766  | 8/26/02     | EPA          | S1440 I.5-K/9.5-11 EPA#4 | 36.4   | -1.26          | 1.64              | 0.91            | 0.48               | 1.11            | 0.64               | 2.02                  | 0.8                      |
| 767  | 8/26/02     | EPA          | S1441 I.5-K/9.5-11 EPA#5 | 37.2   | 1.88           | 2.15              | 0.16            | 0.61               | 1.37            | 0.83               | 1.53                  | 1.030048543              |
| Average Total Radium (Th-232+Ra-226) Concentration for : I.5-K / 9.5-11 = 1.66 pCi/g |             |              |                          |        |                |                   |                 |                    |                 |                    |                       |                          |

## Phase II Sand Samples 8/26/02

| Sample ID | Sample Date | Sample Group | Description         | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|---------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 760       | 8/26/02     | EPA Sand     | S1434 I.5-J.5/1-4   | 35.1   | -1.32          | 1.98              | 0.05            | 0.59               | 1.78            | 0.82               | 1.83                  | 1.010198                 |
| 761       | 8/26/02     | EPA Sand     | S1435 I.5-J.5/4-7   | 35.8   | -0.38          | 1.71              | 0.19            | 0.5                | 0.88            | 0.67               | 0.85                  | 0.836002392              |
| 762       | 8/26/02     | EPA Sand     | S1436 I.5-J.5/7-9.5 | 34.4   | -2.94          | 1.49              | 0.5             | 0.44               | -0.25           | 0.58               | 0.25                  | 0.728010989              |

sand

$$\bar{x} = 0.98$$

$$s = 0.80$$

if negative treated as zero

$$\bar{x} = 1.06$$

$$s = 0.69$$

$$\bar{x} = 1.66$$

$$s = 0.71$$

if negative treated as zero

$$\bar{x} = 1.76$$

$$s = 0.52$$

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510



9/4/02  
[Handwritten initials]

**FACSIMILE TRANSMISSION****Date:** September 4, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 14**CC:****Fax No.:****From:** Steve Kornder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for base of excavation samples H-16 and H-18 and sidewall samples collected at grid designations D½-16, D½-18, D½-20 and J½-8.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Kornder', written over a horizontal line.

Steve Kornder

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary****341 East Ohio Street**

Date:09/3/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg) |
|------------------------------|-------------|-------|--------------------------|--|
| H16                          | 08/23/2002  | 13:50 | base                     | 0.001  |
| H18                          | 08/23/2002  | 13:40 | base                     | 0.036  |
| D½-16                        | 08/23/2002  | 13:45 | vertical                 | 0.019  |
| D½-18                        | 08/23/2002  | 13:50 | vertical                 | 0.05   |
| D½-20                        | 08/23/2002  | 13:55 | vertical                 | 0.734 ✓  |
| J½-8                         | 08/23/2002  | 14:00 | vertical                 | 0.009  |
|                              |             |       |                          |  |

**Notes:**

1 - Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.

The location designation for vertical samples indicates the actual sample location.

2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).

Sidewall - Vertical composite of five grab samples from excavation side wall.

3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: J.5-8

## GC Semivolatiles

Lot-Sample #....: F2H280172-006 Work Order #....: E7A811AA Matrix.....: SOLID  
Date Sampled....: 08/23/02 14:20 Date Received...: 08/27/02  
Prep Date.....: 08/29/02 Analysis Date...: 08/30/02  
Prep Batch #....: 2241300 Analysis Time...: 14:55  
Dilution Factor: 10  
% Moisture.....: 21 Method.....: SW846 8081A

| PARAMETER             | RESULT     | REPORTING<br>LIMIT | UNITS |
|-----------------------|------------|--------------------|-------|
| Aldrin                | ND         | 22                 | ug/kg |
| alpha-BHC             | ND         | 22                 | ug/kg |
| gamma-BHC (Lindane)   | ND         | 22                 | ug/kg |
| Chlordane (technical) | ND         | 220                | ug/kg |
| 4,4'-DDT              | ND         | 22                 | ug/kg |
| Dieldrin              | ND         | 22                 | ug/kg |
| Heptachlor            | ND         | 22                 | ug/kg |
| Heptachlor epoxide    | ND         | 85                 | ug/kg |
|                       | PERCENT    | RECOVERY           |       |
| SURROGATE             | RECOVERY   | LIMITS             |       |
| Decachlorobiphenyl    | 0.0 DIL,NC | (50 - 151)         |       |
| Tetrachloro-m-xylene  | 0.0 DIL,NC | (64 - 131)         |       |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: 5 1/2 - 8

Date of Verification Survey: 8/23/02

Time of Verification Survey: 2:00 am pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: Steve C. Kornder

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The ~~attached~~ 9/4/02 Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Yeencha Simon

Date: 9/4/02

Print Name: Yeencha Simon

Print Title: On-Scene Coordinator

For USEPA Region 5



## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: D.5-20

## GC Semivolatiles

Lot-Sample #....: F2H280172-005    Work Order #....: E7ABX1AA    Matrix.....: SOLID  
Date Sampled....: 08/23/02 13:55    Date Received...: 08/27/02  
Prep Date.....: 08/29/02    Analysis Date...: 08/30/02  
Prep Batch #....: 2241300    Analysis Time...: 14:41  
Dilution Factor: 10  
% Moisture.....: 25    Method.....: SW846 8081A

| PARAMETER             | RESULT     | REPORTING<br>LIMIT | UNITS |
|-----------------------|------------|--------------------|-------|
| Aldrin                | 15 J       | 23                 | ug/kg |
| alpha-BHC             | 6.2 J, COL | 23                 | ug/kg |
| gamma-BHC (Lindane)   | ND         | 23                 | ug/kg |
| Chlordane (technical) | ND         | 230                | ug/kg |
| 4,4'-DDT              | 8.5 J, COL | 23                 | ug/kg |
| Dieldrin              | ND         | 23                 | ug/kg |
| Heptachlor            | 19 J, COL  | 23                 | ug/kg |
| Heptachlor epoxide    | 55 J, COL  | 89                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: D1/2 - 20 (vertical composite)

Date of Verification Survey: 8/23/02

Time of Verification Survey: 1:55

am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: Steve C. Kornder

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 9/4/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: D.5-18

## GC Semivolatiles

Lot-Sample #: F2H280172-004 Work Order #: E7A8T1AA Matrix: SOLID  
Date Sampled: 08/23/02 13:50 Date Received: 08/27/02  
Prep Date: 08/29/02 Analysis Date: 08/30/02  
Prep Batch #: 2241300 Analysis Time: 14:27  
Dilution Factor: 10  
% Moisture: 20 Method: SW846 8081A

| PARAMETER             | RESULT      | REPORTING<br>LIMIT | UNITS |
|-----------------------|-------------|--------------------|-------|
| Aldrin                | ND          | 21                 | ug/kg |
| alpha-BHC             | ND          | 21                 | ug/kg |
| gamma-BHC (Lindane)   | ND          | 21                 | ug/kg |
| Chlordane (technical) | ND          | 210                | ug/kg |
| 4,4'-DDT              | ND          | 21                 | ug/kg |
| Dieldrin              | ND          | 21                 | ug/kg |
| Heptachlor            | 31          | 21                 | ug/kg |
| Heptachlor epoxide    | ND          | 84                 | ug/kg |
|                       | PERCENT     | RECOVERY           |       |
| SURROGATE             | RECOVERY    | LIMITS             |       |
| Decachlorobiphenyl    | 0.0 DIL, NC | (50 - 151)         |       |
| Tetrachloro-m-xylene  | 0.0 DIL, NC | (64 - 131)         |       |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: D12-18 (vertical composite)

Date of Verification Survey: 8/23/02

Time of Verification Survey: 1:50 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 9/4/02

Print Name: Veronica Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: D.5-16

## GC Semivolatiles

Lot-Sample #....: F2H280172-003 Work Order #....: E7A8P1AA Matrix.....: SOLID  
Date Sampled....: 08/23/02 13:45 Date Received...: 08/27/02  
Prep Date.....: 08/29/02 Analysis Date...: 08/30/02  
Prep Batch #....: 2241300 Analysis Time...: 14:13  
Dilution Factor: 1  
% Moisture.....: 22 Method.....: SW846 8081A

| PARAMETER             | RESULT              | REPORTING<br>LIMIT | UNITS |
|-----------------------|---------------------|--------------------|-------|
| Aldrin                | 0.82 J              | 2.2                | ug/kg |
| alpha-BHC             | 0.76 J              | 2.2                | ug/kg |
| gamma-BHC (Lindane)   | ND                  | 2.2                | ug/kg |
| Chlordane (technical) | ND                  | 22                 | ug/kg |
| 4,4'-DDT              | ND                  | 2.2                | ug/kg |
| Dieldrin              | 0.81 J              | 2.2                | ug/kg |
| Heptachlor            | 1.5 J, COL          | 2.2                | ug/kg |
| Heptachlor epoxide    | ND                  | 8.6                | ug/kg |
|                       |                     |                    |       |
| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |       |
| Decachlorobiphenyl    | 88                  | (50 - 151)         |       |
| Tetrachloro-m-xylene  | 69                  | (64 - 131)         |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: D1/2-16 (vertical/composite)

Date of Verification Survey: 8/23/02

Time of Verification Survey: 1:45 am pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 9/4/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-18

## GC Semivolatiles

Lot-Sample #....: F2H280172-002 Work Order #....: E7A8N1AA Matrix.....: SOLID  
Date Sampled....: 08/23/02 13:40 Date Received...: 08/27/02  
Prep Date.....: 08/29/02 Analysis Date...: 08/30/02  
Prep Batch #....: 2241300 Analysis Time...: 13:59  
Dilution Factor: 5  
% Moisture.....: 13 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 9.7                | ug/kg |
| alpha-BHC             | ND     | 9.7                | ug/kg |
| gamma-BHC (Lindane)   | ND     | 9.7                | ug/kg |
| Chlordane (technical) | ND     | 9.7                | ug/kg |
| 4,4'-DDT              | ND     | 9.7                | ug/kg |
| Dieldrin              | ND     | 9.7                | ug/kg |
| Heptachlor            | 12     | 9.7                | ug/kg |
| Heptachlor epoxide    | 5.8 J  | 38                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-18

Date of Verification Survey: 8/23/02

Time of Verification Survey: 1:40 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Veereta Simon

Date: 9/4/02

Print Name: Veereta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5



## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-16

## GC Semivolatiles

Lot-Sample #....: F2H280172-001 Work Order #....: E7A8F1AA Matrix.....: SOLID  
Date Sampled....: 08/23/02 13:50 Date Received...: 08/27/02  
Prep Date.....: 08/29/02 Analysis Date...: 08/30/02  
Prep Batch #....: 2241300 Analysis Time...: 13:16  
Dilution Factor: 1  
% Moisture.....: 12 Method.....: SW846 8081A

|                       |          | REPORTING  |          |
|-----------------------|----------|------------|----------|
| PARAMETER             | RESULT   | LIMIT      | UNITS    |
| Aldrin                | ND       | 1.9        | ug/kg    |
| alpha-BHC             | ND       | 1.9        | ug/kg    |
| gamma-BHC (Lindane)   | ND       | 1.9        | ug/kg    |
| Chlordane (technical) | ND       | 19         | ug/kg    |
| 4,4'-DDT              | ND       | 1.9        | ug/kg    |
| Dieldrin              | ND       | 1.9        | ug/kg    |
| Heptachlor            | ND       | 1.9        | ug/kg    |
| Heptachlor epoxide    | ND       | 7.6        | ug/kg    |
| Endrin                | ND       | 1.9        | ug/kg    |
|                       |          | PERCENT    | RECOVERY |
| SURROGATE             | RECOVERY | LIMITS     |          |
| Decachlorobiphenyl    | 64       | (50 - 151) |          |
| Tetrachloro-m-xylene  | 76       | (64 - 131) |          |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-16

Date of Verification Survey: 8/23/02

Time of Verification Survey: 1:50 am pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/4/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 9/4/02

Print Name: Verneta Simon

Print Title: on-Scene Coordinator

For USEPA Region 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/4/02  
TO: Steve Korndor  
ORGANIZATION: STS Consultants  
FAX NUMBER: (847) 279-2510  
FROM: Verneta Simon  
SUBJECT: 341 EMS Ohio

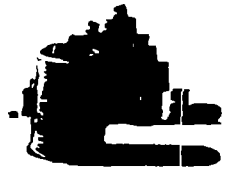
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 7  
MESSAGE:

14-16 H-18  
D.S-16 D.S-18  
D.S-20 J.S-8

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY

SEP-04-02 14:35 ID:3123532034 TECH TEST  
JOB NUMBER  
415  
OK  
INFORMATION CODE  
TELEPHONE NUMBER 9184722792510  
NAME (ID NUMBER) 847 279 2535  
START TIME SEP-04-02 14:32  
PAGES TRANSMITTED 007  
RESOLUTION STD  
SECURITY OFF  
MACHINE ENGAGED 03:04  
THIS TRANSMISSION IS COMPLETED.  
LAST SUCCESSFUL PAGE 007  
EMMR 00 OFF  
TRANSMISSION MODE  
REDIALING TIMES  
MAILBOX  
OFF

\*\*\* TRANSMISSION REPORT \*\*\*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/4/02  
TO: Steve Korndor  
ORGANIZATION: STS Consultants  
FAX NUMBER: (847) 279-2510  
FROM: Verneta Simon  
SUBJECT: 341 East Ohio

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 7  
MESSAGE:

H-16 H-18  
D.5-16 D.5-18  
D.5-20 J.5-8

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

AREA II PHASE II FINAL

Area Identification: I-1.5, 1-9.5 (SAND)

Date of Verification Survey: 8-26-02

Time of Verification Survey 8:30 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-28-02

John Anderson (Print Name)

Records Manager (Print Title)



BTS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/28/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 8/28/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

# Memo

**To:** Rich Berggreen, STS Consultants-Project Coordinator  
**From:** Glenn Huber  
**CC:** John Anderson, Records Manager  
**Date:** 08/28/02  
**Re:** EPA Phase II Sand Samples - 341 E. Ohio Street

---

Rich:

Attached is a corrected copy of the NUTRANL Gamma Spec Report from August 28, 2002. The following (3) Phase II sand samples were inadvertently recorded as "1.5-J.5":

| <u>Sample Date</u> | <u>Description</u> |
|--------------------|--------------------|
| 8/28/02            | S1434 I-J.5/1-4    |
| 8/28/02            | S1435 I-J.5/4-7    |
| 8/28/02            | S1436 I-J.5/7-9.5  |

These samples and surveys were performed by USEPA, but were recorded in our sample log and chain of custody incorrectly. As a result, Form 223-1 was submitted after sample analysis requesting an incomplete release of the area. This form will need to be resent in order correct this error and obtain proper release. I have already forwarded a copy of this memo and the corrected analysis report to John Anderson so he can contact the USEPA.

Thanks,

Glenn Huber

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

Corrected Copy 8/28/02 CAH

Exclusion Zone Confirmatory Samples for August 26, 2002

| Sample ID  | Sample Date | Sample Group | Description              | Weight | U-238 Activity   | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|--|-------------|--------------|--------------------------|--------|------------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 763  | 8/26/02     | EPA          | S1437 1.5-K/9.5-11 EPA#1 | 36.4   | 4.52             | 1.39              | -0.5            | 0.38               | 0.98            | 0.51               | 0.46                  | 0.636003145              |
| 764  | 8/26/02     | EPA          | S1438 1.5-K/9.5-11 EPA#2 | 37.5   | -0.64            | 2.11              | 0.6             | 0.63               | 1.44            | 0.84               | 2.04                  | 1.05                     |
| 765  | 8/26/02     | EPA          | S1439 1.5-K/9.5-11 EPA#3 | 37.7   | -1.35            | 2.22              | 0.11            | 0.65               | 2.13            | 0.91               | 2.24                  | 1.118302285              |
| 766  | 8/26/02     | EPA          | S1440 1.5-K/9.5-11 EPA#4 | 36.4   | -1.26            | 1.84              | 0.91            | 0.48               | 1.11            | 0.84               | 2.02                  | 0.8                      |
| 767  | 8/26/02     | EPA          | S1441 1.5-K/9.5-11 EPA#5 | 37.2   | 1.88             | 2.15              | 0.16            | 0.61               | 1.37            | 0.83               | 1.53                  | 1.030048543              |
| Average Total Radium (Th-232+Ra-226) Concentration for : |             |              |                          |        | 1.5-K / 9.5-11 = |                   |                 |                    |                 | 1.66 pCi/g         |                       |                          |

Corrected  
to  
CL-551  
100 dpm

## Phase II Sand Samples 8/26/02

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 760       | 8/26/02     | EPA Sand     | S1434 1-J.5/1-4   | 35.1   | -1.32          | 1.98              | 0.05            | 0.59               | 1.78            | 0.82               | 1.83                  | 1.010198                 |
| 761       | 8/26/02     | EPA Sand     | S1435 1-J.5/4-7   | 35.6   | -0.38          | 1.71              | 0.19            | 0.5                | 0.66            | 0.67               | 0.85                  | 0.836002392              |
| 762       | 8/26/02     | EPA Sand     | S1436 1-J.5/7-9.5 | 34.4   | -2.94          | 1.49              | 0.5             | 0.44               | -0.25           | 0.58               | 0.25                  | 0.728010989              |

$$\bar{X} = 0.98$$

$$s = 0.80$$

if negative treated as zero

$$\bar{X} = 1.06$$

$$s = 0.69$$

8/21/02

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: I-15, 9-12 <sup>PHASE I</sup> EXCLUSION ZONE <sup>AREA II</sup>  
Date of Verification Survey: 8-21-02  
Time of Verification Survey 9:00am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-21-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/21/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/21/02  
Veneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 11-21 AREA I Phase II Final

Date of Verification Survey: 8-21-02

Time of Verification Survey 9:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-21-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/21/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/21/02

Vernita Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutrani Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for August 21, 2002

| Sample ID | Sample Date | Sample Group | Description            | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|------------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 741       | 8/21/02     | EPA          | S1421 I-J.5/9-12 EPA#1 | 33.8   | -1.93          | 2.31              | 1.42            | 0.88               | 0.54            | 0.9                | 1.98                  | 1.128007092              |
| 742       | 8/21/02     | EPA          | S1422 I-J.5/9-12 EPA#2 | 34     | 4.38           | 1.82              | -0.12           | 0.45               | 4               | 0.84               | 3.88                  | 0.7823682                |
| 743       | 8/21/02     | EPA          | S1423 I-J.5/9-12 EPA#3 | 33.3   | -0.84          | 2.02              | 0.29            | 0.81               | 1.84            | 0.81               | 1.93                  | 1.014001972              |
| 744       | 8/21/02     | EPA          | S1424 I-J.5/9-12 EPA#4 | 34     | -3.69          | 2.15              | 0.95            | 0.86               | 2.19            | 0.9                | 3.14                  | 1.116064514              |
| 745       | 8/21/02     | EPA          | S1425 I-J.5/9-12 EPA#5 | 33.5   | 0.22           | 1.78              | 0.55            | 0.52               | 1.78            | 0.71               | 2.33                  | 0.880056816              |

Average Total Radium (Th-232+Ra-226) Concentration for : I-J.5/9-12 = 2.65 pCi/g

## Phase II Sand Samples 8/21/02

| Sample ID | Sample Date | Sample Group | Description     | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 746       | 8/21/02     | EPA Sand     | S1426 E-G/11-13 | 41.5   | 0.33           | 1.18              | 0.19            | 0.34               | 0.22            | 0.45               | 0.41                  | 0.584003546              |
| 747       | 8/21/02     | EPA Sand     | S1427 E-G/13-15 | 35.8   | 2.18           | 1.65              | 0.63            | 0.47               | 0.24            | 0.63               | 0.87                  | 0.786002545              |
| 748       | 8/21/02     | EPA Sand     | S1428 E-G/16-17 | 37.3   | -2.18          | 2.15              | -0.89           | 0.64               | 3.17            | 0.93               | 2.28                  | 1.128037554              |
| 749       | 8/21/02     | EPA Sand     | S1429 E-G/17-19 | 34.2   | -4.05          | 1.89              | 1.18            | 0.58               | 0.02            | 0.77               | 1.21                  | 0.964002075              |
| 750       | 8/21/02     | EPA Sand     | S1430 E-G/19-21 | 34.4   | -2.26          | 2.22              | 0.74            | 0.66               | 1.28            | 0.9                | 2.02                  | 1.116064514              |

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510

**FACSIMILE TRANSMISSION****Date:** September 5, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 16**CC:****Fax No.:****From:** Steve Komder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for base of excavation samples F-16, F-18 and H-14, and sidewall samples I-16, I-18, F-14 and F-21.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Komder', is written over a horizontal line.

Steve Komder

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary**  
**341 East Ohio Street**

Date:09/3/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg) |
|------------------------------|-------------|-------|--------------------------|--|
| H-14                         | 08/14/2002  | 14:30 | base                     | 0.000  |
| F-16                         | 08/20/2002  | 13:00 | base                     | 0.007  |
| F-18                         | 08/20/2002  | 13:10 | base                     | 0.084  |
| F-21                         | 08/20/2002  | 13:40 | sidewall                 | 0.874  |
| F-14                         | 08/20/2002  | 13:20 | sidewall                 | 0.719  |
| I-16                         | 08/20/2002  | 10:45 | sidewall                 | 0.486  |
| I-18                         | 08/20/2002  | 11:00 | sidewall                 | 0.008  |
|                              |             |       |                          |  |

**Notes:**

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.  
The location designation for vertical samples indicates the actual sample location.
- 2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).  
Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.

STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: I-16

GC Semivolatiles

Lot-Sample #....: F2H210313-002 Work Order #....: R60KE1AA Matrix.....: SOLID  
Date Sampled....: 08/20/02 10:45 Date Received...: 08/21/02  
Prep Date.....: 08/22/02 Analysis Date...: 08/26/02  
Prep Batch #....: 2234216 Analysis Time...: 19:13  
Dilution Factor: 5  
% Moisture.....: 16 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 2.0                | ug/kg |
| alpha-BHC             | ND     | 2.0                | ug/kg |
| gamma-BHC (Lindane)   | ND     | 2.0                | ug/kg |
| Chlordane (technical) | 68 COL | 20                 | ug/kg |
| 4,4'-DDT              | ND     | 2.0                | ug/kg |
| Dieldrin              | 5.0    | 2.0                | ug/kg |
| Heptachlor            | 3.7    | 2.0                | ug/kg |
| Heptachlor epoxide    | ND     | 7.9                | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: I-16 (sidewalk composite)

Date of Verification Survey: 8/20/02

Time of Verification Survey: 10:45 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: Steve C. Kornder

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 9/6/02

Print Name: Verneta Simon

Print Title: On Scene Coordinator

For USEPA Region 5

STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: F-14

GC Semivolatiles

Lot-Sample #....: F2H210313-005 Work Order #....: B60KH1AA Matrix.....: SOLID  
 Date Sampled....: 08/20/02 13:20 Date Received...: 08/21/02  
 Prep Date.....: 08/22/02 Analysis Date...: 08/26/02  
 Prep Batch #....: 2234216 Analysis Time...: 20:40  
 Dilution Factor: 5  
 % Moisture.....: 17 Method.....: SWB46 B081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 2.0                | ug/kg |
| alpha-BHC             | ND     | 2.0                | ug/kg |
| gamma-BHC (Lindane)   | ND     | 2.0                | ug/kg |
| Chlordane (technical) | ND     | 20                 | ug/kg |
| 4,4'-DDT              | ND     | 2.0                | ug/kg |
| Dieldrin              | ND     | 2.0                | ug/kg |
| Heptachlor            | ND     | 2.0                | ug/kg |
| Heptachlor epoxide    | 4.6 J  | 8.1                | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL, NC         | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL, NC         | (64 - 131)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-14 (sidewalk composite)

Date of Verification Survey: 8/20/02

Time of Verification Survey: 1:20 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 9/6/02

Print Name: Verneta Simms

Print Title: On-Scene Coordinator

For USEPA Region 5



STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: F-21

GC Semivolatiles

Lot-Sample #: F2H210313-004 Work Order #: E60KG1AA Matrix: SOLID  
Date Sampled: 08/20/02 13:40 Date Received: 08/21/02  
Prep Date: 08/22/02 Analysis Date: 08/26/02  
Prep Batch #: 2234216 Analysis Time: 20:11  
Dilution Factor: 5  
% Moisture: 19 Method: SW846 8081A

| PARAMETER             | RESULT     | REPORTING LIMIT | UNITS |
|-----------------------|------------|-----------------|-------|
| Aldrin                | ND         | 2.1             | ug/kg |
| alpha-BHC             | ND         | 2.1             | ug/kg |
| gamma-BHC (Lindane)   | ND         | 2.1             | ug/kg |
| Chlordane (technical) | ND         | 21              | ug/kg |
| 4,4'-DDT              | ND         | 2.1             | ug/kg |
| Dieldrin              | ND         | 2.1             | ug/kg |
| Heptachlor            | ND         | 2.1             | ug/kg |
| Heptachlor epoxide    | 5.2 J, COL | 8.3             | ug/kg |

| SURROGATE            | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Decachlorobiphenyl   | 0.0 DIL, NC      | (50 - 151)      |
| Tetrachloro-m-xylene | 0.0 DIL, NC      | (64 - 131)      |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-21 (sidewalk composite)

Date of Verification Survey: 8/20/02

Time of Verification Survey: 1:40 am (pm)

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Veneta Simon

Date: 9/6/02

Print Name: Veneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: F-18

GC Semivolatiles

Lot-Sample #: F2H210313-007 Work Order #: E60KK1AA Matrix: SOLID  
Date Sampled: 08/20/02 13:10 Date Received: 08/21/02  
Prep Date: 08/22/02 Analysis Date: 08/26/02  
Prep Batch #: 2234216 Analysis Time: 21:39  
Dilution Factor: 1  
% Moisture: 17 Method: SW846 8081A

| PARAMETER             | RESULT | REPORTING LIMIT | UNITS |
|-----------------------|--------|-----------------|-------|
| Aldrin                | 1.0 J  | 2.1             | ug/kg |
| alpha-BHC             | ND     | 2.1             | ug/kg |
| gamma-BHC (Lindane)   | ND     | 2.1             | ug/kg |
| Chlordane (technical) | ND     | 2.1             | ug/kg |
| 4,4'-DDT              | ND     | 2.1             | ug/kg |
| Dieldrin              | ND     | 2.1             | ug/kg |
| Heptachlor            | ND     | 2.1             | ug/kg |
| Heptachlor epoxide    | ND     | 8.1             | ug/kg |

| SURROGATE            | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Decachlorobiphenyl   | 77               | (50 - 151)      |
| Tetrachloro-m-xylene | 97               | (64 - 131)      |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-18

Date of Verification Survey: 8/20/02

Time of Verification Survey: 1:10 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 9/6/02

Print Name: Veronica Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: F-16

GC Semivolatiles

Lot-Sample #....: F2H210313-006 Work Order #....: E60KJ1AA Matrix.....: SOLID  
 Date Sampled....: 08/20/02 13:00 Date Received...: 08/21/02  
 Prep Date.....: 08/22/02 Analysis Date...: 08/26/02  
 Prep Batch #....: 2234216 Analysis Time...: 21:09  
 Dilution Factor: 1  
 % Moisture.....: 15 Method.....: SW846 8081A

| PARAMETER             | RESULT     | REPORTING LIMIT | UNITS |
|-----------------------|------------|-----------------|-------|
| Aldrin                | ND         | 2.0             | ug/kg |
| alpha-BHC             | 0.59 J,COL | 2.0             | ug/kg |
| gamma-BHC (Lindane)   | ND         | 2.0             | ug/kg |
| Chlordane (technical) | ND         | 20              | ug/kg |
| 4,4'-DDT              | ND         | 2.0             | ug/kg |
| Dieldrin              | ND         | 2.0             | ug/kg |
| Heptachlor            | ND         | 2.0             | ug/kg |
| Heptachlor epoxide    | ND         | 7.8             | ug/kg |

| SURROGATE            | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Decachlorobiphenyl   | 70               | (50 - 151)      |
| Tetrachloro-m-xylene | 88               | (64 - 131)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-16

Date of Verification Survey: 8/29/02

Time of Verification Survey: 1:00 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The ~~attached~~ 9/6/02 Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 9/6/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-14

GC Semivolatiles

Lot-Sample #....: F2H200218-002 Work Order #....: EGVC1A Matrix.....: SOLID  
Date Sampled....: 08/19/02 14:30 Date Received...: 08/20/02  
Prep Date.....: 08/22/02 Analysis Date...: 08/26/02  
Prep Batch #....: 2234216 Analysis Time...: 16:46  
Dilution Factor: 1  
% Moisture.....: 5.4 Method.....: SW846 8081A

| PARAMETER             | RESULT     | REPORTING<br>LIMIT | UNITS |
|-----------------------|------------|--------------------|-------|
| Aldrin                | ND         | 1.8                | ug/kg |
| alpha-BHC             | ND         | 1.8                | ug/kg |
| gamma-BHC (Lindane)   | ND         | 1.8                | ug/kg |
| Chlordane (technical) | ND         | 18                 | ug/kg |
| 4,4'-DDT              | ND         | 1.8                | ug/kg |
| Dieldrin              | ND         | 1.8                | ug/kg |
| Heptachlor            | ND         | 1.8                | ug/kg |
| Heptachlor epoxide    | 0.70 J,COL | 7.1                | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 100                 | (50 - 151)         |
| Tetrachloro-m-xylene | 88                  | (64 - 131)         |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-14

Date of Verification Survey: 8/14/02

Time of Verification Survey: 2:30 am pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 9/6/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5



STL ST. LOUIS

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: I-18

## GC Semivolatiles

Lot-Sample #....: F2H210313-003    Work Order #....: E60KF1AA    Matrix.....: SOLID  
 Date Sampled....: 08/20/02 11:00    Date Received...: 08/21/02  
 Prep Date.....: 08/22/02    Analysis Date...: 08/26/02  
 Prep Batch #....: 2234216    Analysis Time...: 19:42  
 Dilution Factor: 5  
 % Moisture.....: 7.7    Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Aldrin                | ND     | 1.8                | ug/kg |
| alpha-BHC             | ND     | 1.8                | ug/kg |
| gamma-BHC (Lindane)   | ND     | 1.8                | ug/kg |
| Chlordane (technical) | ND     | 1.8                | ug/kg |
| 4,4'-DDT              | ND     | 1.8                | ug/kg |
| Dieldrin              | ND     | 1.8                | ug/kg |
| Heptachlor            | ND     | 1.8                | ug/kg |
| Heptachlor epoxide    | ND     | 7.3                | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Decachlorobiphenyl   | 0.0 DIL,NC          | (50 - 151)         |
| Tetrachloro-m-xylene | 0.0 DIL,NC          | (64 - 131)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: I-18 (sidewalk composite)

Date of Verification Survey: 8/20/02

Time of Verification Survey: 11:00 am/pm ☒

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: Steve C. Kornder

Date: 9/3/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The ~~attached~~ 9/6/02 Verification Survey documents were reviewed by USEPA, Region 5 on 9/6/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

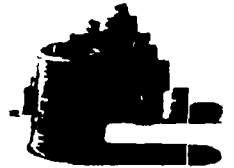
Signed: Veeneta Simon

Date: 9/6/02

Print Name: Veeneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/6/02

TO: Steve Koender

ORGANIZATION: STS

FAX NUMBER: (847) 279-2510

FROM: Veronica Simon

SUBJECT: 341 East Ohio

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 8

MESSAGE:

I-18

F-21

H-14

I-16

F-18

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 9/6/02  
TO: Steve Koender  
ORGANIZATION: STS  
FAX NUMBER: (847) 279-2510  
FROM: Verneta Simon  
SUBJECT: 341 East Ohio

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 8  
MESSAGE

I-18 F-21 H-14  
I-16 F-18  
F-14 F-16

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY

SEP-06-02 07:38 ID:3123532034 TECH TEST

JOB NUMBER 425

INFORMATION CODE 009

TELEPHONE NUMBER 918472792510

NAME (ID NUMBER)

START TIME SEP-06-02 07:38

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LAST SUCCESSFUL PAGE 000

\*\*\* TRANSMISSION REPORT \*\*\*

# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



8/7/02  
I.1

## FACSIMILE TRANSMISSION

Date: 8-8-02

Pages being transmitted, Incl. Cover: 5

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | USEPA         | 312 353 9176 |
|               |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: JOHN ANDERSON S.T.S.

Fax 312-755-6022  
Phone:

Re: LMO 341 E. Ohio

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

### Message:

AREA V, PHASE II Final

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\*\*\* TRANSMISSION REPORT \*\*\*

AUG-09-02 07:48 ID:3123532034

TECH TEST

JOB NUMBER 183  
INFORMATION CODE OK  
TELEPHONE NUMBER 97556022  
NAME(ID NUMBER)  
START TIME AUG-09-02 07:42  
PAGES TRANSMITTED 004 TRANSMISSION MODE ECM  
RESOLUTION S-FINE REDIALING TIMES 00  
SECURITY OFF MAILBOX OFF  
MACHINE ENGAGED 05'28

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LAST SUCCESSFUL PAGE 004



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-SJ

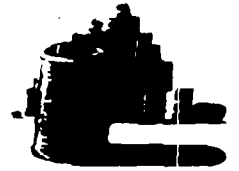
FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/9/02  
TO: John Anderson  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6622  
FROM: Verneta Simon  
SUBJECT: Area 1, Phase II Final

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 4  
MESSAGE:

A-B, 15-21  
E-G, 1-3  
G-I, 1-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/9/02  
TO: John Andersen  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Verneta Simon  
SUBJECT: Area 1, Phase II Final

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 4  
MESSAGE:

A-B, 15-21

E-G, 1-3

G-I, 1-15

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-B, 15-21 AREA E, PHASE II Final

Date of Verification Survey: 8-8-02

Time of Verification Survey 1:30 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature]

Date 8-8-02

Totta Anderson

(Print Name)

RECOVERS Manager

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/9/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature]

Date 8/9/02

Verneta Simon

(Print Name)

On-Scene Coordinator

(Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 6-I, 1-15

Date of Verification Survey: 8-8-02

Time of Verification Survey 1:30 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-8-02

Tolte Anderson (Print Name)

RECORDS MANAGER (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/9/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/9/02

VERNELA Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 1-3  
Date of Verification Survey: 8-8-02  
Time of Verification Survey 1:30 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-8-02  
Totta Anderson (Print Name)  
Reconus Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/9/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed: [Signature] Date 8/9/02  
Verneta Simon (Print Name)  
On Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Phase II Sand Samples for August 8, 2002

| Sample ID | Sample Date | Sample Group | Description     | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 692       | 8/8/02      | EPA Sand     | S1390 A-B/15-21 | 33.1   | -0.93          | 2.45              | -0.08           | 0.73               | 1.37            | 1                  | 1.29                  | 1.238103368              |
| 693       | 8/8/02      | EPA Sand     | S1391 E-G/1-3   | 33.5   | 1.65           | 2.73              | 0.67            | 0.78               | 1.68            | 1.07               | 2.35                  | 1.330037593              |
| 694       | 8/8/02      | EPA Sand     | S1392 G-I/1-3   | 31.7   | 0.77           | 2.38              | -0.48           | 0.7                | 1.53            | 0.96               | 1.05                  | 1.188107738              |
| 695       | 8/8/02      | EPA Sand     | S1393 G-I/3-5   | 32.7   | -1.54          | 2.42              | 0.47            | 0.7                | 0.7             | 0.95               | 1.17                  | 1.180042372              |
| 696       | 8/8/02      | EPA Sand     | S1394 G-I/5-7   | 33.5   | -0.48          | 2.37              | -0.64           | 0.88               | 1.84            | 0.99               | 1                     | 1.201041215              |
| 697       | 8/8/02      | EPA Sand     | S1395 G-I/7-9   | 32.7   | -1             | 2.95              | 1.55            | 0.88               | 0.72            | 1.16               | 2.27                  | 1.456021878              |
| 698       | 8/8/02      | EPA Sand     | S1396 G-I/9-11  | 33.9   | 0.93           | 2.95              | 1.55            | 0.83               | -0.41           | 1.12               | 1.14                  | 1.394022855              |
| 699       | 8/8/02      | EPA Sand     | S1397 G-I/11-13 | 34.4   | -3.59          | 1.73              | 0.04            | 0.53               | 0.83            | 0.72               | 0.87                  | 0.894035793              |
| 700       | 8/8/02      | EPA Sand     | S1398 G-I/13-15 | 35.1   | -8.28          | 2.27              | 1.06            | 0.7                | 0.5             | 0.93               | 1.55                  | 1.164001718              |
| 701       | 8/8/02      | EPA Sand     | S1399 G-I5 clay | 39.7   | 7.12           | 3.29              | 1.19            | 0.92               | 3.46            | 1.21               | 4.85                  | 1.520032894              |

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510

**FACSIMILE TRANSMISSION**Date: 8-8-02Pages being transmitted, Incl. Cover: 8

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | USEPA         | 312-353-9176 |
|               |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: John Anderson S.T.S. Fax: 312-755-6022  
Direct:Re: GMD - 341 E. OHIO

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

**Message:**

AREA I, PHASE II Final

↓  
EXCLUSION ZONAS AT (1) A-A.5, 2.5-3.5  
(2) E-F, 1-2.5 (3) E-F, 13.5-15 (4) H-I, 8-10

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**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-B, 1-15 AREA I, Phase II Final

Date of Verification Survey: 8-7-02

Time of Verification Survey 2:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson

Date 8-8-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 8/8/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Verneta Simon

Date 8/8/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-F, 1-2.5  
Date of Verification Survey: 8-7-02  
Time of Verification Survey 2:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Paul Date 8-8-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/8/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veneta Simon Date 8/8/02  
Veneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-F, 13.5-15  
Date of Verification Survey: 8-7-02  
Time of Verification Survey 2:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Carl Date 8-8-02  
Tolte Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/8/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Verneta Simon Date 8/8/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: H-I, 8-10  
Date of Verification Survey: 8-7-02  
Time of Verification Survey 2:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-8-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/8/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Verneta Simon Date 8/8/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-A.5, 2.5-3.5  
Date of Verification Survey: 8-7-02  
Time of Verification Survey 2:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Cull

Date 8-8-02

Toltn Anderson

(Print Name)

Records Manager

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/8/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Veeneha Simon

Date 8/8/02

Veeneha Simon

(Print Name)

On-Scene Coordinator

(Print Title)

For U.S. EPA Region V

### Exclusion Zone Confirmatory Samples for August 7, 2002

Average Total Radium (Th-232+Ra-226) Concentration for :  $A-A.5/2.5-3.5 = 4.68$  pCi/g

Average Total Radium (Th-232+Ra-226) Concentration for : E-F/1-2.5 = 1.01 pCi/g

Average Total Radium (Th-232+Ra-226) Concentration for : E-F/13.5-15 = 2.77 pCi/g

Average Total Radium (Th-232+Ra-226) Concentration for : H-1/8-10 = 0.86 pCi/g

Phase II Sand Samples 8/7/02

| Sample ID | Sample Date | Sample Group | Description     | Weight | U-238 Activity       | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------|--------|----------------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 871       | 8/7/02      | EPA Sand     | S1386 A-B/1-4   | 30.8   | -3.43                | 1.82              | 0.25            | 0.5                | 0.85            | 0.87               | 0.9                   | 0.836002392              |
| 872       | 8/7/02      | EPA Sand     | S1387 A-B/4-8   | 31.3   | 0.87                 | 1.9               | 0.27            | 0.54               | 0.89            | 0.74               | 0.98                  | 0.916078599              |
| 873       | 8/7/02      | EPA Sand     | S1388 A-B/8-12  | 36.1   | <sup>b</sup><br>2.89 | 2.08              | 0.23            | 0.58               | 0.64            | 0.8                | <sup>b</sup><br>0.87  | 0.988129546              |
| 874       | 8/7/02      | EPA Sand     | S1389 A-B/12-15 | 38.5   | -0.49                | 2.38              | 0.88            | 0.68               | 0.69            | 0.93               | 1.57                  | 1.152085086              |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/8/02  
TO: John Andersen  
ORGANIZATION: SIS  
FAX NUMBER: (312) 755-6022  
FROM: Verneta Simon  
SUBJECT: Verification Forms

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): ~~8~~ 6 pages  
MESSAGE:

E-F/1-2.5

A-B/1-4

A-B/12-15

E-F/13.5-15

A-B/4-8

A-A-5/2.5-3.5

H-1/8-10

A-B/8-12

\*\*\* TRANSMISSION REPORT \*\*\*

AUG-08-02 12:38 ID:3123532034

TECH TEST

JOB NUMBER 173

INFORMATION CODE OK

TELEPHONE NUMBER 97556022

NAME(ID NUMBER)

START TIME AUG-08-02 12:23

PAGES TRANSMITTED 006 TRANSMISSION MODE ECM

RESOLUTION S-FINE REDIALING TIMES 00

SECURITY OFF MAILBOX OFF

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LAST SUCCESSFUL PAGE 006



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/2/02  
TO: John Anderson  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Verneba Simon  
SUBJECT: Verification Forms

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 8  
MESSAGE:

E-F/1-2.5

E-F/13.5-15

H-1/8-10

A-B/1-4

A-B/4-8

A-B/8-12

A-B/12-15

A-A-S/2.5-3.5

# STS Consultants, Ltd.

760 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2600  
Fax: (847) 279-2610



## FACSIMILE TRANSMISSION

Date: 8-14-02

Pages being transmitted, Incl. Cover: 3

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | USEPA         | 312-353-9176 |
|               |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From: John Anderson S.T.S.

Fax 312-755-6022  
Phone:

Re: 6 MO 341 E. OHIO

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

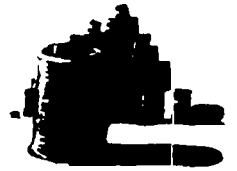
### Message:

AREA I, PHASE I, FINAL

6 TO I, 15 TO 20

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**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2600 IMMEDIATELY**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/15/02  
TO: John Andreeson  
ORGANIZATION: STS Consultants  
FAX NUMBER: (312) 755-6022  
FROM: Vernice Simon  
SUBJECT: Area I, Phase I Final G-I 15-20

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2  
MESSAGE:

\*\*\* TRANSMISSION REPORT \*\*\*

AUG-15-02 06:49 ID:3123532034

TECH TEST

JOB NUMBER 236  
INFORMATION CODE OK  
TELEPHONE NUMBER 97556022  
NAME (ID NUMBER)  
START TIME AUG-15-02 06:47  
PAGES TRANSMITTED 002 TRANSMISSION MODE ECM  
RESOLUTION S-FINE REDIALING TIMES 00  
SECURITY OFF MAILBOX OFF  
MACHINE ENGAGED 02'35

THIS TRANSMISSION IS COMPLETED.

LAST SUCCESSFUL PAGE 002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/15/02  
TO: John Andreesen  
ORGANIZATION: SDS Consultants  
FAX NUMBER: (312) 755-6022  
FROM: Veronica Simon  
SUBJECT: Area I, Phase I Final G-I 15-20

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2  
MESSAGE:

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 6-V, 15-20 AREA I, Phase II  
Date of Verification Survey: 8-14-02 Final  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-14-02  
Todd Paulson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/15/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/15/02  
Veeneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V



8/2/02  
2.1

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, IllinoisArea Identification: I-6 (sidewalk composite)Date of Verification Survey: 8/2/02Time of Verification Survey: 2:40am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]Date: 8/19/02Print Name: Steve C. KornderPrint Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]Date: 8/29/02Print Name: VERNECA SIMONPrint Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: T-2 (sidewalk composite)

Date of Verification Survey: 8/2/02

Time of Verification Survey: 2:30 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 8/20/02

Print Name: Verneta Simon

Print Title: On Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: I-4 (sidewalk composite)

Date of Verification Survey: 8/2/02

Time of Verification Survey: 2:35 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: Steve C. Kornder

Date: 8/13/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 8/20/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510

**FACSIMILE TRANSMISSION****Date:** August 19, 2002**To:** Ms. Vemeta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 9**CC:****Fax No.:****From:** Steve Komder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for sidewall samples collected at grid designations I-2, I-4 and I-6.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Komder', is written over a horizontal line.

Steve Komder

**IMPORTANT:** This facsimile is intended only for the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary**  
**341 East Ohio Street**

Date:08/19/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay |
|------------------------------|-------------|-------|--------------------------|-----------------------|
| I-2                          | 08/02/2002  | 14:30 | sidewall                 | 0.009                 |
| I-4                          | 08/02/2002  | 14:35 | sidewall                 | 0.246                 |
| I-6                          | 08/02/2002  | 14:40 | sidewall                 | 0.246                 |
|                              |             |       |                          |                       |

**Notes:**

1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.

The location designation for vertical samples indicates the actual sample location.

2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).

Sidewall - Vertical composite of five grab samples from excavation side wall.

3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Tel 314 298-2566  
Fax 314 298 8757  
www.stlinc.com

## ANALYTICAL REPORT

REVISED


Waste Characterization

Lot #: F2H050168

Rich Berggreen

STS Acquisitions Co.  
750 Corporate Woods Parkway  
Vernon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

  
For: John D. Powell  
Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

LOT# F2H050168



## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: I-6

## GC Semivolatiles

Lot-Sample #....: F2H050168-003 Work Order #....: ESXNA1AA Matrix.....: SOLID  
Date Sampled....: 08/02/02 14:40 Date Received...: 08/03/02  
Prep Date.....: 08/08/02 Analysis Date...: 08/10/02  
Prep Batch #....: 2220226 Analysis Time...: 04:14  
Dilution Factor: 20  
% Moisture.....: 18 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | 49     | 42                 | ug/kg |
| Heptachlor epoxide    | ND     | 42                 | ug/kg |
| Aldrin                | ND     | 42                 | ug/kg |
| Chlordane (technical) | ND     | 420                | ug/kg |
| alpha-BHC             | ND     | 42                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 42                 | ug/kg |
| 4,4'-DDT              | ND     | 42                 | ug/kg |
| Dieldrin              | ND     | 42                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: I-2

## GC Semivolatiles

Lot-Sample #....: F2H050168-001 Work Order #....: E5XM31AA Matrix.....: SOLID  
Date Sampled....: 08/02/02 14:30 Date Received...: 08/03/02  
Prep Date.....: 08/08/02 Analysis Date...: 08/12/02  
Prep Batch #....: 2220226 Analysis Time...: 15:57  
Dilution Factor: 20  
% Moisture.....: 17 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING |       |
|-----------------------|--------|-----------|-------|
|                       |        | LIMIT     | UNITS |
| Heptachlor            | ND     | 41        | ug/kg |
| Heptachlor epoxide    | ND     | 41        | ug/kg |
| Aldrin                | ND     | 41        | ug/kg |
| Chlordane (technical) | ND     | 410       | ug/kg |
| alpha-BHC             | ND     | 41        | ug/kg |
| gamma-BHC (Lindane)   | ND     | 41        | ug/kg |
| 4,4'-DDT              | ND     | 41        | ug/kg |
| Dieldrin              | ND     | 41        | ug/kg |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 0.0 DIL  | (57 - 116) |
| Decachlorobiphenyl   | 0.0 DIL  | (45 - 147) |

## NOTE(S) :

DIL: The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: I-4

## GC Semivolatiles

Lot-Sample #....: F2H050168-002    Work Order #....: E5XM81AA    Matrix.....: SOLID  
Date Sampled....: 08/02/02 14:35    Date Received...: 08/03/02  
Prep Date.....: 08/08/02    Analysis Date...: 08/10/02  
Prep Batch #....: 2220226    Analysis Time...: 03:55  
Dilution Factor: 20  
% Moisture.....: 15    Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 40                 | ug/kg |
| Heptachlor epoxide    | ND     | 40                 | ug/kg |
| Aldrin                | ND     | 40                 | ug/kg |
| Chlordane (technical) | ND     | 400                | ug/kg |
| alpha-BHC             | ND     | 40                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 40                 | ug/kg |
| 4,4'-DDT              | ND     | 40                 | ug/kg |
| Dieldrin              | ND     | 40                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

NOTE(S):

DL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

# STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510



8/1/02  
I.1

## FACSIMILE TRANSMISSION

Date:

8-1-02

Pages being transmitted, Incl. Cover:

7

| To:           | Company Name: | Fax No.:     |
|---------------|---------------|--------------|
| VERNETA SIMON | US EPA        | 312-353-9176 |
|               |               |              |
|               |               |              |
|               |               |              |
|               |               |              |

From:

JOHN ANDERSON

S.T.S.

Fax 312-755-6022

Phone:

Re:

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

Message:

AREA I, Phase II Final  
AND  
EXCLUSION ZONE AT H-17

**IMPORTANT:** This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 3-7 AREA I Phase II Final

Date of Verification Survey: 8-1-02

Time of Verification Survey 8:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-1-02

John Anderson (Print Name)

Recones Manager (Print Title)



STB Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
8/1/02. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Yeneta Simon Date 8/1/02

Yeneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 16-21 AREA II, Phase II Final

Date of Verification Survey: 8-1-02

Time of Verification Survey 8:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-1-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 8/2/02. The results of this survey indicate that the verificatic criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Verneta Simon Date 8/2/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 7-11 AREA I, PHASE II Final  
Date of Verification Survey: 8-1-02  
Time of Verification Survey 8:00am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-1-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
8/2/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

Verneta Simon Date 8/2/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: H-19 samples 1-5

Date of Verification Survey: 8-1-02

Time of Verification Survey 8:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 8-1-02

Telva Anderson (Print Name)

Reconos Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 8/2/02. The results of this survey indicate that the verificatic criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 8/2/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 12-16 Anna St, Phase II  
Date of Verification Survey: 8-1-02 *Final*  
Time of Verification Survey 8:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 8-1-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
8/2/02. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

Veeneta Simon Date 8/2/02  
Veeneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

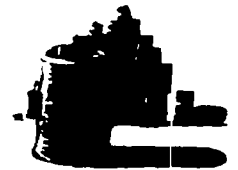
## Exclusion Zone Confirmatory Samples for August 1, 2002

| Sample ID | Sample Date | Sample Group | Description      | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 644       | 8/1/02      | EPA          | S1352 H-19 EPA#1 | 24.5   | 3.84           | 2.5               | 0.83            | 0.69               | 1.2             | 0.95               | 2.03                  | 1.174137982              |
| 645       | 8/1/02      | EPA          | S1353 H-19 EPA#2 | 31.2   | -0.52          | 1.97              | 2.45            | 0.57               | 0.72            | 0.74               | 3.17                  | 0.934077085              |
| 646       | 8/1/02      | EPA          | S1354 H-19 EPA#3 | 30.8   | 2.77           | 2.07              | 0.98            | 0.59               | 2.76            | 0.82               | 3.74                  | 1.010198                 |
| 647       | 8/1/02      | EPA          | S1355 H-19 EPA#4 | 33.3   | -1.95          | 1.95              | 1.98            | 0.6                | 1.4             | 0.79               | 3.38                  | 0.992018145              |
| 648       | 8/1/02      | EPA          | S1356 H-19 EPA#5 | 31.7   | -1.53          | 1.81              | 1.83            | 0.54               | 0.72            | 0.69               | 2.55                  | 0.876184912              |

Average Total Radium (Th-232+Ra-226) Concentration for : H - 19 = 2.97 pCi/g

## Phase II Sand Samples

| Sample ID | Sample Date | Sample Group | Description     | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-----------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 640       | 8/1/02      | EPA Sand     | S1348 B-C/12-18 | 30.2   | 4.14           | 2.5               | -0.41           | 0.71               | 1.63            | 0.97               | 1.22                  | 1.202081528              |
| 641       | 8/1/02      | EPA Sand     | S1349 B-C/16-21 | 27.8   | 0.8            | 1.67              | -0.21           | 0.47               | 1.1             | 0.88               | 0.89                  | 0.810246875              |
| 642       | 8/1/02      | EPA Sand     | S1350 E-G/3-7   | 30.6   | 1.43           | 1.62              | -0.22           | 0.46               | 1.84            | 0.64               | 1.62                  | 0.78816242               |
| 643       | 8/1/02      | EPA Sand     | S1351 E-G/7-11  | 33.7   | 0.73           | 1.74              | 0.4             | 0.52               | 1.12            | 0.71               | 1.52                  | 0.880056816              |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 8/2/02  
TO: John Anderson  
ORGANIZATION: STS Consultants  
FAX NUMBER: 312/755-6022  
FROM: Verneta Simon  
SUBJECT: Successful Verification Forms

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  
MESSAGE:

Area I, Phase II

B-C, 12-16

B-C, 16-21

E-G, 3-17

E-G, 7-11

My pager # 888-616-3085 or call the USEPA 24-hr #  
(312) 353-2318 and ask them to page me, too! Normally,  
if I am in pager range, I will return a call in ~ 15 min max.  
Otherwise, call the 24 hr #.

Have a great weekend!

*Verneta*

\*\*\* TRANSMISSION REPORT \*\*\*

AUG-02-02 07:28 ID:3123532034

TECH TEST

JOB NUMBER 110  
 INFORMATION CODE OK  
 TELEPHONE NUMBER 97556022  
 NAME(ID NUMBER)  
 START TIME AUG-02-02 07:19  
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LAST SUCCESSFUL PAGE 006



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 REGION 5  
 EMERGENCY RESPONSE BRANCH  
 Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
 FAX: (312) 353-9176

DATE: 8/2/02  
 TO: John Andersson  
 ORGANIZATION: STS Consultants  
 FAX NUMBER: 312/755-6022  
 FROM: Verneta Simon  
 SUBJECT: Successful Verification Forms

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  
 MESSAGE:

Area I, Phase II  
 B-C, 12-14 E-G, 3-7  
 B-C, 16-21 E-G, 7-11

My pager # 888-616-3085 or call the USEPA 24-hr # (312) 353-2318 and ask them to page me, too! Normally, if I am in pager range, I will return a call in ~ 15 min max. Otherwise, call me 24 hr #.

Have a great weekend!

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY.

Verneta

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510

**FACSIMILE TRANSMISSION****Date:** August 19, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 7**CC:****Fax No.:****From:** Steve Komder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for grid area designations H-4 and H-8.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

Steve Komder

**IMPORTANT:** This facsimile is intended only for the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary**  
**341 East Ohio Street**

Date:08/19/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay |
|------------------------------|-------------|-------|--------------------------|-----------------------|
| H-4                          | 08/01/2002  | 13:30 | base                     | 0.004                 |
| H-8                          | 08/01/2002  | 13:40 | base                     | 0.009                 |
|                              |             |       |                          | 0                     |

**Notes:**

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.  
The location designation for vertical samples indicates the actual sample location.
- 2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m<sup>2</sup> area).  
Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Tel 314 298 8566  
Fax 314 298 8757  
[www.stl-inc.com](http://www.stl-inc.com)

## ANALYTICAL REPORT

REVISED


Waste Characterization

Lot #: F2H020131

Rich Berggreen

STS Acquisitions Co.  
750 Corporate Woods Parkway  
Vernon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

  
For: John D. Powell  
Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

LOT# F2H020131

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-4

## GC Semivolatiles

Lot-Sample #....: F2H020131-001 Work Order #....: E5R4G1AA Matrix.....: SOLID  
Date Sampled....: 08/01/02 13:30 Date Received...: 08/02/02  
Prep Date.....: 08/05/02 Analysis Date...: 08/10/02  
Prep Batch #....: 2217113 Analysis Time...: 02:40  
Dilution Factor: 20  
% Moisture.....: 3.6 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 35                 | ug/kg |
| Heptachlor epoxide    | ND     | 35                 | ug/kg |
| Aldrin                | ND     | 35                 | ug/kg |
| Chlordane (technical) | ND     | 350                | ug/kg |
| alpha-BHC             | ND     | 35                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 35                 | ug/kg |
| 4,4'-DDT              | ND     | 35                 | ug/kg |
| Dieldrin              | ND     | 35                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.



## STS ACQUISITIONS CO. dba STS COMB., LTD.

Client Sample ID: H-8

## GC Semivolatiles

Lot-Sample #....: F2H020131-002 Work Order #....: R5R4J1AA Matrix.....: SOLID  
Date Sampled....: 08/01/02 13:40 Date Received...: 08/02/02  
Prep Date.....: 08/05/02 Analysis Date...: 08/10/02  
Prep Batch #....: 2217113 Analysis Time...: 02:59  
Dilution Factor: 20  
% Moisture.....: 3.5 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 35                 | ug/kg |
| Heptachlor epoxide    | ND     | 35                 | ug/kg |
| Aldrin                | ND     | 35                 | ug/kg |
| Chlordane (technical) | ND     | 350                | ug/kg |
| alpha-BHC             | ND     | 35                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 35                 | ug/kg |
| 4,4'-DDT              | ND     | 35                 | ug/kg |
| Dieldrin              | ND     | 35                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

**NOTE(S) :**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.  
Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDEProject Name/Number: 341 East Ohio Street, Chicago, IllinoisArea Identification: H-4Date of Verification Survey: 8/10/02Time of Verification Survey: 1:30 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]Date: 8/19/02Print Name: Steve C. KornderPrint Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Veneta S. SimonDate: 8/20/02Print Name: Veneta J. SimonPrint Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-8

Date of Verification Survey: 8/1/02

Time of Verification Survey: 1:40 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 8/20/02

Print Name: Veneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510

**FACSIMILE TRANSMISSION****Date:** August 19, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 9**CC:****Fax No.:****From:** Steve Komder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for grid area designations F-8, H-10 and H-12. Please note that the lab results for the H-6 sample exceeded the clean-up objective for heptachlor at H-6. Additional excavation has been performed at H-6 and a subsequent immunoassay analysis conducted on 8/13/02 (lab results are currently pending).

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

  
Steve Komder

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary**  
**341 East Ohio Street**

Date: 08/19/2002

| Sample Location <sup>1</sup> | Sample Date | Time | Sample Type <sup>2</sup> | Chlordane Immunoassay |
|------------------------------|-------------|------|--------------------------|-----------------------|
| F-8                          | 07/31/2002  | 8:30 | base                     | 0.005                 |
| H-6                          | 07/31/2002  | 8:45 | base                     | 1.48                  |
| H-10                         | 07/31/2002  | 9:15 | base                     | 0.157                 |
| H-12                         | 07/31/2002  | 9:45 | base                     | 0.804                 |
|                              |             |      |                          |                       |

**Notes:**

- 1 - Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.  
The location designation for vertical samples indicates the actual sample location.
- 2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).  
Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Tel 314 298 8566  
Fax 314 298 8757  
www.stl-inc.com

## ANALYTICAL REPORT

REVISED

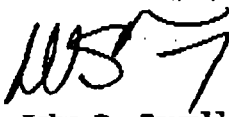
Waste Characterization

Lot #: F2H010233

Rich Berggreen

STS Acquisitions Co.  
750 Corporate Woods Parkway  
Vernon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

  
For: John D. Powell  
Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

LOT# F2H010233

## STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: F-8

## GC Semivolatiles

Lot-Sample #....: F2H010233-001 Work Order #....: R5QGCLAA Matrix.....: SOLID  
Date Sampled....: 07/31/02 08:30 Date Received...: 08/01/02  
Prep Date.....: 08/02/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2214119 Analysis Time...: 02:28  
Dilution Factor: 20  
% Moisture.....: 5.2 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 36                 | ug/kg |
| Heptachlor epoxide    | ND     | 36                 | ug/kg |
| Aldrin                | ND     | 36                 | ug/kg |
| Chlordane (technical) | ND     | 360                | ug/kg |
| alpha-BHC             | ND     | 36                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 36                 | ug/kg |
| 4,4'-DDT              | ND     | 36                 | ug/kg |
| Dieldrin              | ND     | 36                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-10

## GC Semivolatiles

Lot-Sample #....: F2H010233-003 Work Order #....: E50QH1AA Matrix.....: SOLID  
Date Sampled....: 07/31/02 09:15 Date Received...: 08/01/02  
Prep Date.....: 08/02/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2214119 Analysis Time...: 03:06  
Dilution Factor: 20  
% Moisture.....: 19 Method.....: SW846 8081A

| <u>PARAMETER</u>      | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------|---------------|----------------------------|--------------|
| Heptachlor            | ND            | 42                         | ug/kg        |
| Heptachlor epoxide    | ND            | 42                         | ug/kg        |
| Aldrin                | ND            | 42                         | ug/kg        |
| Chlordane (technical) | ND            | 420                        | ug/kg        |
| alpha-BHC             | ND            | 42                         | ug/kg        |
| gamma-BHC (Lindane)   | ND            | 42                         | ug/kg        |
| 4,4'-DDT              | ND            | 42                         | ug/kg        |
| Dieldrin              | ND            | 42                         | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Tetrachloro-m-xylene | 0.0 DIL                     | (57 - 116)                 |
| Decachlorobiphenyl   | 0.0 DIL                     | (45 - 147)                 |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.



## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: H-12

## GC Semivolatiles

Lot-Sample #....: F2H010233-004 Work Order #....: E5QGJ1AA Matrix.....: SOLID  
Date Sampled....: 07/31/02 09:45 Date Received...: 08/01/02  
Prep Date.....: 08/02/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2214119 Analysis Time...: 03:25  
Dilution Factor: 20  
% Moisture.....: 12 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 39                 | ug/kg |
| Heptachlor epoxide    | ND     | 39                 | ug/kg |
| Aldrin                | ND     | 39                 | ug/kg |
| Chlordane (technical) | ND     | 390                | ug/kg |
| alpha-BHC             | ND     | 39                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 39                 | ug/kg |
| 4,4'-DDT              | ND     | 39                 | ug/kg |
| Dieldrin              | ND     | 39                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

**NOTE (S) :**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, IllinoisArea Identification: H-12Date of Verification Survey: 7/31/02Time of Verification Survey: 9:45 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]Date: 8/19/02Print Name: Steve C. KornderPrint Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]Date: 8/20/02Print Name: Veencha SimonPrint Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-8

Date of Verification Survey: 7/31/02

Time of Verification Survey: 8:30 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 8/20/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: H-10

Date of Verification Survey: 7/31/02

Time of Verification Survey: 9:15 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 8/20/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
FAX: (847) 279-2510



6/19/02  
I.1

**FACSIMILE TRANSMISSION****Date:** August 19, 2002**To:** Ms. Verneta Simon or Mr. Fred Micke**Company:** United States Environmental Protection Agency (USEPA)**Fax #:** 312-353-9176**Pages being transmitted, incl. Cover:** 9**CC:****Fax No.:****From:** Steve Kornder**Phone:** 847 279-2448**Re:** 341 East Ohio Street Project, Chicago, Illinois

☐ Urgent ☐ For Signature ☒ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow

**Message:**

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for grid area designations F-4, F-6 & F-10.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Kornder', is written over a horizontal line.

Steve Kornder

**IMPORTANT:** This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY**

**Chlordane Immunoassay Field Results Summary**  
**341 East Ohio Street**

Date:08/19/2002

| Sample Location <sup>1</sup> | Sample Date | Time  | Sample Type <sup>2</sup> | Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg) |
|------------------------------|-------------|-------|--------------------------|--|
| F-4-VP                       | 07/26/2002  | 14:30 | base                     | 0.534  |
| F-6-VP                       | 07/26/2002  | 14:35 | base                     | 0.437  |
| F-10-VP                      | 07/26/2002  | 14:50 | base                     | 0.068  |
|                              |             |       |                          |  |

**Notes:**

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.  
The location designation for vertical samples indicates the actual sample location.
- 2 - Base - Composite sample from the base of the excavation (five grab samples from 100 m2 area).  
Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 - The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Tel 314 298 8566  
Fax 314 298 8757  
www.stl-inc.com

## **ANALYTICAL REPORT**

REVISED

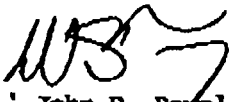
**Waste Characterization**

**Lot #: F2G310222**

**Rich Berggreen**

**STS Acquisitions Co.  
750 Corporate Woods Parkway  
Vernon Hills, IL 60061**

**SEVERN TRENT LABORATORIES, INC.**

  
For: John D. Powell  
Project Manager

**August 16, 2002**

STL St. Louis is a part of Severn Trent Laboratories, Inc.

**LOT# F2G310222**

## STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: P4-VP

## GC Semivolatiles

Lot-Sample #....: F2G310222-001 Work Order #....: E5M441AA Matrix.....: SOLID  
Date Sampled....: 07/26/02 14:30 Date Received...: 07/31/02  
Prep Date.....: 08/01/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2213116 Analysis Time...: 01:05  
Dilution Factor: 20  
% Moisture.....: 10 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING |       |
|-----------------------|--------|-----------|-------|
|                       |        | LIMIT     | UNITS |
| Heptachlor            | ND     | 38        | ug/kg |
| Heptachlor epoxide    | ND     | 38        | ug/kg |
| Aldrin                | ND     | 38        | ug/kg |
| Chlordane (technical) | ND     | 380       | ug/kg |
| alpha-BHC             | ND     | 38        | ug/kg |
| gamma-BHC (Lindane)   | ND     | 38        | ug/kg |
| 4,4'-DDT              | ND     | 38        | ug/kg |
| Dieldrin              | ND     | 38        | ug/kg |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 0.0 DIL  | (57 - 116) |
| Decachlorobiphenyl   | 0.0 DIL  | (45 - 147) |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.



STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: F6-VP

GC Semivolatiles

Lot-Sample #....: F2G310222-002 Work Order #....: E5M5M1AA Matrix.....: SOLID  
Date Sampled....: 07/26/02 14:30 Date Received...: 07/31/02  
Prep Date.....: 08/01/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2213116 Analysis Time...: 01:24  
Dilution Factor: 20  
% Moisture.....: 10 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------|--------|--------------------|-------|
| Heptachlor            | ND     | 38                 | ug/kg |
| Heptachlor epoxide    | ND     | 38                 | ug/kg |
| Aldrin                | ND     | 38                 | ug/kg |
| Chlordane (technical) | ND     | 380                | ug/kg |
| alpha-BHC             | ND     | 38                 | ug/kg |
| gamma-BHC (Lindane)   | ND     | 38                 | ug/kg |
| 4,4'-DDT              | ND     | 38                 | ug/kg |
| Dieldrin              | ND     | 38                 | ug/kg |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| Tetrachloro-m-xylene | 0.0 DIL             | (57 - 116)         |
| Decachlorobiphenyl   | 0.0 DIL             | (45 - 147)         |

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.  
Results and reporting limits have been adjusted for dry weight.

## STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: F10-VP

## GC Semivolatiles

Lot-Sample #....: F2G310222-003 Work Order #....: E5M6F1AA Matrix.....: SOLID  
Date Sampled....: 07/26/02 14:30 Date Received...: 07/31/02  
Prep Date.....: 08/01/02 Analysis Date...: 08/08/02  
Prep Batch #....: 2213116 Analysis Time...: 01:43  
Dilution Factor: 20  
% Moisture.....: 6.8 Method.....: SW846 8081A

| PARAMETER             | RESULT | REPORTING |       |
|-----------------------|--------|-----------|-------|
|                       |        | LIMIT     | UNITS |
| Heptachlor            | ND     | 36        | ug/kg |
| Heptachlor epoxide    | ND     | 36        | ug/kg |
| Aldrin                | ND     | 36        | ug/kg |
| Chlordane (technical) | ND     | 360       | ug/kg |
| alpha-BHC             | ND     | 36        | ug/kg |
| gamma-BHC (Lindane)   | ND     | 36        | ug/kg |
| 4,4'-DDT              | ND     | 36        | ug/kg |
| Dieldrin              | ND     | 36        | ug/kg |

| SURROGATE            | PERCENT  |  | RECOVERY   |  |
|----------------------|----------|--|------------|--|
|                      | RECOVERY |  | LIMITS     |  |
| Tetrachloro-m-xylene | 0.0 DIL  |  | (57 - 116) |  |
| Decachlorobiphenyl   | 0.0 DIL  |  | (45 - 147) |  |

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-4-vP

Date of Verification Survey: 7/24/02

Time of Verification Survey: 2:30

am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Komder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 8/24/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: F-6-VP

Date of Verification Survey: 7/24/02

Time of Verification Survey: 2:35 am/pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/13/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: Verneta Simon

Date: 8/20/02

Print Name: Verneta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

FORM FOR  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY  
PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

Area Identification: K-1D-VP

Date of Verification Survey: 7/26/02

Time of Verification Survey: 2:50 am/pm pm

The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.

Signed: [Signature]

Date: 8/19/02

Print Name: Steve C. Kornder

Print Title: Senior Project Geochemist

STS Consultants, Ltd.

The attached Verification Survey documents were reviewed by USEPA, Region 5 on 8/20/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed: [Signature]

Date: 8/20/02

Print Name: Vereta Simon

Print Title: On-Scene Coordinator

For USEPA Region 5

7/26/02

FORM 223-1

NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-E, 1-10 (B) Area I, Phase II Final

Date of Verification Survey: 7-26-02

Time of Verification Survey 11:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature]

Date 7-30-02

John Anderson

(Print Name)

Records Manager

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Veneta S. Smith

Date 7/30/02

Veneta J. Smith

(Print Name)

On-Scene Coordinator

(Print Title)

For U.S. EPA Region V

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-E, 1-10 (A) AREA II, Phase II FinalDate of Verification Survey: 7-26-02Time of Verification Survey 11:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

 Date 7-30-02John Anderson (Print Name)Records Manager (Print Title)

STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/30/02. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

 Date 7/30/02Verneeta J. Simon (Print Name)On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 1-6 (C) AREA E, Phase II Final

Date of Verification Survey: 7-26-02

Time of Verification Survey 11:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-30-02

John Anderson (Print Name)

Records Manager (Print Title)



STB Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 7/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veeneta S. Simon Date 7/30/02

Veeneta J. Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 6-12 (B) AREA II PHASE II  
Date of Verification Survey: 7-26-02 *Final*  
Time of Verification Survey 11:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 7-30-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/30/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

*Vereta J. Simon* Date 7/30/02  
Vereta J. Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 6-12 (A) AREA, Phase II FinalDate of Verification Survey: 7-26-02Time of Verification Survey 11:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature]Date 7-30-02John Anderson

(Print Name)

Records Manager

(Print Title)



BTS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/30/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

Verneta SimonDate 7/30/02Verneta Simon

(Print Name)

On-Scene Coordinator

(Print Title)

For U.S. EPA Region V

| Nutranl Gamma Spec Report- 341 East Ohio Street Site |         |          |                   |      |       |      |      |      |      |      |      |             |
|--|---------|----------|-------------------|------|-------|------|------|------|------|------|------|-------------|
| Area 1 Phase 2 Completion Samples                    |         |          |                   |      |       |      |      |      |      |      |      |             |
| 589  | 7/23/02 | EPA Sand | S1311 C-E/ 1-10 A | 33.8 | -0.28 | 1.76 | 1    | 0.52 | 0.1  | 0.60 | 1.1  | 0.864002315 |
| 590  | 7/23/02 | EPA Sand | S1311 C-E/ 1-10 B | 32.9 | 1     | 1.91 | 0.1  | 0.55 | 0.96 | 0.75 | 1.08 | 0.930053782 |
| 612  | 7/28/02 | EPA Sand | S1328 B-C/6-12 A  | 29.9 | -4.28 | 1.78 | 0.8  | 0.55 | 0.65 | 0.74 | 1.65 | 0.822008677 |
| 613  | 7/28/02 | EPA Sand | S1328 B-C/6-12 B  | 32.9 | -1.09 | 1.85 | 0.94 | 0.59 | 0.31 | 0.78 | 1.25 | 0.87200823  |
| 614  | 7/28/02 | EPA Sand | S1330 B-C/1-6 C   | 27.8 | 0.46  | 2.05 | 0.65 | 0.83 | 0.67 | 0.63 | 1.32 | 1.042017274 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 7/30/02  
TO: John Andeessen  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Vernita Simon  
SUBJECT: 341 C Ohio

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  
MESSAGE:

C-E, 1-10 (B)  
B-C, 6-12 (A)  
B-C, 6-12 (B)  
B-C, 1-6 (C)  
C-E, 1-10 (A)

**STS Consultants, Ltd.**

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Phone: (847) 279-2500  
Fax: (847) 279-2510

**FACSIMILE TRANSMISSION**Date: 7-30-02Pages being transmitted, Incl. Cover: 6

| To:                  | Company Name: | Fax No.:            |
|----------------------|---------------|---------------------|
| <u>VERNATA SIMON</u> | <u>USEPA</u>  | <u>312 535-9176</u> |
| <u>cc</u>            |               |                     |
|                      |               |                     |
|                      |               |                     |
|                      |               |                     |

From: John Anderson S.T.S. Fax 312-755-6022  
-Phone:Re: 341 E. Ohio

☐ For Review ☐ Please Comment/Reply ☐ As Requested ☒ For Signature

**Message:**

AREA I, Phase II, Final

**IMPORTANT:** This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

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INFORMATION CODE OK  
TELEPHONE NUMBER 97556022  
NAME(ID NUMBER)  
START TIME JUL-30-02 08:40  
PAGES TRANSMITTED 006 TRANSMISSION MODE ECM  
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LAST SUCCESSFUL PAGE 006



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
EMERGENCY RESPONSE BRANCH  
Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE: (312) 353-2318  
FAX: (312) 353-9176

DATE: 7/30/02  
TO: John Andreesen  
ORGANIZATION: STS  
FAX NUMBER: (312) 755-6022  
FROM: Veronica Simon  
SUBJECT: 341 E Oh.O

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  
MESSAGE:

C-E, 1-10 (B)  
B-C, 6-12 (A)  
B-C, 6-12 (B)  
B-C, 1-6 (C)  
C-E, 1-10 (A)

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:

C-E, 1-N AREA # PHASE II FINAL (SAND)

Date of Verification Survey:

7-23-02

Time of Verification Survey

am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

Date 8-28-02Totten Anderson

(Print Name)

Racones Manager

(Print Title)

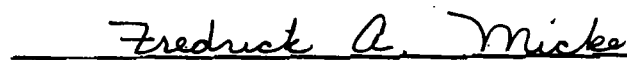


STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/28/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Date 8/28/02FREDRICK A. MICKE

(Print Name)

ON-SCENE COORDINATOR

(Print Title)

For U.S. EPA Region V

## FORM 223-1

## NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:

B-C, 1-12AREA 1 DITCH & ERM  
(SAND)

Date of Verification Survey:

7-26-02

Time of Verification Survey

am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson*Date 8-28-02*John Anderson*

(Print Name)

*Records Manager*

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 8/28/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

*Fredrick A. Micke*Date 8/28/02FREDRICK A. MICKE

(Print Name)

ON-SCENE COORDINATOR

(Print Title)

For U.S. EPA Region V



# **Nutranl Gamma Spec Report- 341 East Ohio Street Site**

## **Phase II Sand Samples for July 23, 2002**

| Sample ID | Sample Date | Sample Group | Description       | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|-------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 589       | 7/23/02     | EPA Sand     | S1311 C-E/ 1-10 A | 33.8   | -0.28          | 1.79              | 1               | 0.52               | 0.1             | 0.69               | 1.1                   | 0.864002315              |
| 590       | 7/23/02     | EPA Sand     | S1311 C-E/ 1-10 B | 32.9   | 1              | 1.91              | 0.1             | 0.55               | 0.98            | 0.75               | 1.08                  | 0.930053782              |

$$\bar{x} = 1.09$$

$$s = 0.01$$

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Phase II Sand Samples for July 26, 2002

| Sample ID | Sample Date | Sample Group | Description      | Weight | U-238 Activity | U-238 Uncertainty | Th-232 Activity | Th-232 Uncertainty | Ra-226 Activity | Ra-226 Uncertainty | Total Radium Activity | Total Radium Uncertainty |
|-----------|-------------|--------------|------------------|--------|----------------|-------------------|-----------------|--------------------|-----------------|--------------------|-----------------------|--------------------------|
| 812       | 7/26/02     | EPA Sand     | S1328 B-C/6-12 A | 29.9   | -4.28          | 1.78              | 0.8             | 0.55               | 0.85            | 0.74               | 1.65                  | 0.922008677              |
| 813       | 7/26/02     | EPA Sand     | S1328 B-C/6-12 B | 32.8   | -1.09          | 1.95              | 0.94            | 0.58               | 0.31            | 0.78               | 1.25                  | 0.97200823               |
| 814       | 7/26/02     | EPA Sand     | S1330 B-C/1-6 C  | 27.8   | 0.48           | 2.05              | 0.65            | 0.83               | 0.67            | 0.83               | 1.32                  | 1.042017274              |

$$\bar{x} = 1.41$$

$$s = 0.21$$

I.1  
7/23/02

FORM 223-1

NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 6-I.5, 7-6

Date of Verification Survey: 7-23-02

Time of Verification Survey 8:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 7-23-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached/Verification Survey documents were reviewed by U.S. EPA, Region V on 7/23/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 7/23/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 6-E.5, 6-8  
Date of Verification Survey: 7-23-02  
Time of Verification Survey 8:00 AM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 7-23-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/23/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

*Fredrick A. Micke* Date 7/23/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for July 23, 2002

|     |         |     |                 |      |       |      |      |      |      |      |      |             |
|-----|---------|-----|-----------------|------|-------|------|------|------|------|------|------|-------------|
| 591 | 7/23/02 | EPA | G-1.5/4-6 EPA#1 | 33.2 | -0.28 | 2.43 | 1.86 | 0.71 | 2.51 | 0.95 | 4.36 | 1.188001686 |
| 592 | 7/23/02 | EPA | G-1.5/4-6 EPA#2 | 32.7 | 2.71  | 2.24 | 2.25 | 0.64 | 1.82 | 0.85 | 4.07 | 1.084001488 |
| 593 | 7/23/02 | EPA | G-1.5/4-6 EPA#3 | 32.6 | 0.87  | 2.75 | 3.11 | 0.79 | 2.6  | 1.08 | 5.71 | 1.322008051 |
| 594 | 7/23/02 | EPA | G-1.5/4-6 EPA#4 | 31.9 | 2.45  | 2.45 | 1.84 | 0.7  | 2.65 | 0.94 | 4.49 | 1.172006826 |
| 595 | 7/23/02 | EPA | G-1.5/4-6 EPA#5 | 32.2 | 0.2   | 2.12 | 2.51 | 0.61 | 2    | 0.81 | 4.51 | 1.014001972 |
| 596 | 7/23/02 | EPA | G-1.5/6-8 EPA#1 | 35.5 | -0.05 | 1.59 | 1.69 | 0.48 | 0.83 | 0.61 | 2.32 | 0.764002818 |
| 597 | 7/23/02 | EPA | G-1.5/6-8 EPA#2 | 35.6 | 0.6   | 2.01 | 1.57 | 0.59 | 3.91 | 0.81 | 5.48 | 1.0020976   |
| 598 | 7/23/02 | EPA | G-1.5/6-8 EPA#3 | 35.7 | 0.56  | 1.82 | 1.7  | 0.54 | 1.41 | 0.72 | 3.11 | 0.9         |
| 599 | 7/23/02 | EPA | G-1.5/6-8 EPA#4 | 34.9 | 3.69  | 2.34 | 0.61 | 0.65 | 0.86 | 0.66 | 1.47 | 1.078007421 |
| 600 | 7/23/02 | EPA | G-1.5/6-8 EPA#5 | 37   | 0.22  | 2.39 | 1.06 | 0.7  | 1.88 | 0.94 | 2.73 | 1.172006826 |

Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for

G-1.5 / 4-6  
G-1.5 / 6-8

4.63  
3.02

pCi/g  $\alpha = 0.63$   
pCi/g  $\alpha = 1.50$

|                            |         |     |                   |      |       |      |     |      |      |      |      |             |
|----------------------------|---------|-----|-------------------|------|-------|------|-----|------|------|------|------|-------------|
| SAND Samples from C-E/1-10 |         |     |                   |      |       |      |     |      |      |      |      |             |
| 589                        | 7/23/02 | EPA | S1311 C-E/ 1-10 A | 33.8 | -0.28 | 1.79 | 1   | 0.52 | 0.1  | 0.69 | 1.1  | 0.864002315 |
| 590                        | 7/23/02 | EPA | S1311 C-E/ 1-10 B | 32.9 | 1     | 1.91 | 0.1 | 0.55 | 0.98 | 0.75 | 1.08 | 0.830053782 |

Sand sample

FORM 225-4  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-G/10-12

Date of Verification Survey: 7-22-02

Time of Verification Survey 9:30 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

Domenais F. Guerrier Date 7-22-02

Domenais F. Guerrier (Print Name)

Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/23/03. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 7/23/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 225-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: G-1.5/2-4

Date of Verification Survey: 7-22-02

Time of Verification Survey 9:25 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

Domenais J. Guerin Date 7-22-02

Domenais J. Guerin (Print Name)

Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/23/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Fredrick A. Micke Date 7/23/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 225-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: G-1 / 11-13

Date of Verification Survey: 7-22-02

Time of Verification Survey 9:15 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

DUMARSAIS F. GUERRIERO Date 7-22-02

DUMARSAIS F. GUERRIERO (Print Name)

Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/23/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 7/23/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V



FORM 20-4  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 6-1 / 9-11

Date of Verification Survey: 7-22-02

Time of Verification Survey 9:05 (am/pm)

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

DUMARSAIS F. GUERRIER

Date 7-22-02

DUMARSAIS F. GUERRIER

(Print Name)

Site Coordinator

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/23/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke

Date 7/23/02

FREDRICK A. MICKE

(Print Name)

ON-SCENE COORDINATOR

(Print Title)

For U.S. EPA Region V

FORM 1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: G-1.5/8-9

Date of Verification Survey: 7-22-02

Time of Verification Survey 9:00 am pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

DUMARSAIS F. GUERRIER Date 7-22-02

DUMARSAIS F. GUERRIER (Print Name)

Site Coordinator (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 7/23/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 7/23/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for July 22, 2002

|     |         |     |                 |      |       |      |      |      |      |      |      |             |
|-----|---------|-----|-----------------|------|-------|------|------|------|------|------|------|-------------|
| 562 | 7/22/02 | EPA | G-I.5/8-9 EPA#1 | 30.3 | -1.73 | 1.83 | 0.88 | 0.49 | 1.47 | 0.88 | 2.33 | 0.822006732 |
| 563 | 7/22/02 | EPA | G-I.5/8-9 EPA#2 | 32   | 0.48  | 2.01 | 1.5  | 0.58 | 1.05 | 0.77 | 2.55 | 0.284002075 |
| 564 | 7/22/02 | EPA | G-I.5/8-9 EPA#3 | 31.1 | -1    | 1.65 | 1.32 | 0.48 | 0.9  | 0.65 | 2.22 | 0.808022277 |
| 565 | 7/22/02 | EPA | G-I.5/8-9 EPA#4 | 31.3 | -1.38 | 1.72 | 1.2  | 0.51 | 1.7  | 0.68 | 2.9  | 0.85        |
| 566 | 7/22/02 | EPA | G-I.5/8-9 EPA#5 | 30.1 | -1.43 | 1.87 | 1.53 | 0.57 | 1.01 | 0.77 | 2.54 | 0.956018788 |
| 567 | 7/22/02 | EPA | G-I/9-11 EPA#1  | 28.4 | 0.25  | 2.02 | 2.84 | 0.59 | 0.88 | 0.75 | 3.7  | 0.954253835 |
| 568 | 7/22/02 | EPA | G-I/9-11 EPA#2  | 29.8 | 0.01  | 2.11 | 1.72 | 0.61 | 2.4  | 0.84 | 4.12 | 1.038123307 |
| 569 | 7/22/02 | EPA | G-I/9-11 EPA#3  | 29.9 | 3.65  | 2.2  | 2.02 | 0.63 | 1.57 | 0.83 | 3.59 | 1.042017274 |
| 570 | 7/22/02 | EPA | G-I/9-11 EPA#4  | 31.5 | 1.37  | 1.85 | 1.52 | 0.54 | 3    | 0.73 | 4.52 | 0.906018824 |
| 571 | 7/22/02 | EPA | G-I/9-11 EPA#5  | 30.3 | -1.85 | 1.71 | 1.71 | 0.51 | 2.05 | 0.68 | 3.76 | 0.83401328  |
| 572 | 7/22/02 | EPA | G-I/11-13 EPA#1 | 33   | -1.17 | 2.14 | 0.87 | 0.64 | 2.17 | 0.85 | 3.04 | 1.0000188   |
| 573 | 7/22/02 | EPA | G-I/11-13 EPA#2 | 33.6 | -0.41 | 2.2  | 0.64 | 0.66 | 1.6  | 0.87 | 2.24 | 1.09201483  |
| 574 | 7/22/02 | EPA | G-I/11-13 EPA#3 | 33.2 | -2.73 | 2.02 | 0.33 | 0.81 | 2.67 | 0.82 | 3    | 1.022007828 |
| 575 | 7/22/02 | EPA | G-I/11-13 EPA#4 | 34.9 | -5.88 | 1.59 | 1.75 | 0.5  | 1.44 | 0.65 | 3.19 | 0.820080873 |
| 576 | 7/22/02 | EPA | G-I/11-13 EPA#5 | 32.8 | 4.57  | 2.58 | 0.65 | 0.7  | 1.2  | 0.98 | 2.05 | 1.188107739 |
| 577 | 7/22/02 | EPA | G-I.5/2-4 EPA#1 | 29.3 | 3.55  | 2.63 | 2.88 | 0.74 | 0.23 | 0.93 | 3.09 | 1.188488432 |
| 578 | 7/22/02 | EPA | G-I.5/2-4 EPA#2 | 30.4 | 3.43  | 2.21 | 2.01 | 0.61 | 0.57 | 0.79 | 2.58 | 0.996008182 |
| 579 | 7/22/02 | EPA | G-I.5/2-4 EPA#3 | 29.7 | 1.12  | 2.18 | 1.17 | 0.63 | 1.88 | 0.85 | 3.05 | 1.058017013 |
| 580 | 7/22/02 | EPA | G-I.5/2-4 EPA#4 | 31.2 | 0.97  | 1.38 | 2.4  | 0.4  | 0.88 | 0.52 | 3.28 | 0.856048779 |
| 581 | 7/22/02 | EPA | G-I.5/2-4 EPA#5 | 31.3 | 4.84  | 2.63 | 2.03 | 0.74 | 1.93 | 0.97 | 3.86 | 1.220019883 |
| 582 | 7/22/02 | EPA | E-G/10-12 EPA#1 | 34.3 | 2.34  | 2.65 | 2.27 | 0.75 | 1.38 | 0.97 | 3.63 | 1.22001213  |
| 583 | 7/22/02 | EPA | E-G/10-12 EPA#2 | 34.4 | -2.18 | 1.95 | 2.63 | 0.59 | 2.04 | 0.77 | 4.87 | 0.5000145   |
| 584 | 7/22/02 | EPA | E-G/10-12 EPA#3 | 33.7 | -0.63 | 2.2  | 1.88 | 0.64 | 2.12 | 0.85 | 4.08 | 1.0000188   |
| 585 | 7/22/02 | EPA | E-G/10-12 EPA#4 | 31.9 | -0.5  | 2.29 | 1.58 | 0.67 | 2.69 | 0.91 | 4.28 | 1.00001247  |
| 586 | 7/22/02 | EPA | E-G/10-12 EPA#5 | 33.7 | 3.94  | 2.26 | 1.57 | 0.65 | 2.95 | 0.88 | 4.52 | 1.078007421 |

Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for

G-I.5 / 8-9 2.51 pCi/g  $\Delta = 0.26$   
G-I / 9-11 3.94 pCi/g  $\Delta = 0.30$   
G-I / 11-13 2.70 pCi/g  $\Delta = 0.52$   
G-I.5 / 2-4 3.19 pCi/g  $\Delta = 0.50$   
E-G / 10-12 4.24 pCi/g  $\Delta = 0.71$

71  
422

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 8-10

Date of Verification Survey: 7-12-02

Time of Verification Survey 10:00 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

 Date 7-12-02

John Buckleson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 7/12/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 7/12/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-6, 6-8  
Date of Verification Survey: 7-12-02  
Time of Verification Survey 10:00 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 7-12-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/12/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

*Fredrick A. Micke* Date 7/12/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-0, 2-4  
Date of Verification Survey: 7-12-02  
Time of Verification Survey 10:00 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-12-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/12/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

Fredrick A. Micke Date 7/12/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: E-G, 4-6  
Date of Verification Survey: 7-12-02  
Time of Verification Survey 10:00 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-12-02  
Tolte Buckner (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/12/02. The results of this survey indicate that the verificatio  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavatio

Signed:

Fredrick A. Micke Date 7/12/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

# Nutranl Gamma Spec Report- 341 East Ohio Street Site

## Exclusion Zone Confirmatory Samples for July 12, 2002

|     |         |     |                       |      |       |      |       |      |      |      |      |             |
|-----|---------|-----|-----------------------|------|-------|------|-------|------|------|------|------|-------------|
| 492 | 7/12/02 | EPA | S1231 E-G/4-8 EPA #1  | 32.1 | 3.04  | 2.47 | 1.83  | 0.7  | 2.53 | 0.95 | 4.38 | 1.180042372 |
| 493 | 7/12/02 | EPA | S1232 E-G/4-8 EPA #2  | 32.1 | 0.35  | 1.88 | 3.18  | 0.55 | 2.38 | 0.7  | 5.54 | 0.890224681 |
| 494 | 7/12/02 | EPA | S1233 E-G/4-8 EPA #3  | 31.3 | 2.43  | 1.78 | 3.38  | 0.51 | 0.88 | 0.65 | 4.28 | 0.828198103 |
| 495 | 7/12/02 | EPA | S1234 E-G/4-8 EPA #4  | 29.1 | 5.82  | 2.62 | 4.31  | 0.74 | 2.59 | 0.96 | 6.9  | 1.212105808 |
| 496 | 7/12/02 | EPA | S1235 E-G/4-8 EPA #5  | 29.5 | -2.33 | 1.76 | 0.75  | 0.53 | 2.67 | 0.72 | 3.42 | 0.894035783 |
| 497 | 7/12/02 | EPA | S1236 E-G/2-4 EPA #1  | 28.5 | 1.16  | 2.02 | 1.94  | 0.59 | 1.24 | 0.78 | 3.18 | 0.97800818  |
| 498 | 7/12/02 | EPA | S1237 E-G/2-4 EPA #2  | 23.8 | 5.56  | 2.29 | 1.53  | 0.63 | 2.35 | 0.85 | 3.88 | 1.058017013 |
| 499 | 7/12/02 | EPA | S1238 E-G/2-4 EPA #3  | 30.1 | 2.19  | 2.42 | 0.01  | 0.89 | 3.22 | 0.98 | 3.23 | 1.196540779 |
| 500 | 7/12/02 | EPA | S1239 E-G/2-4 EPA #4  | 28.3 | 5.67  | 2.64 | 1.39  | 0.74 | 1.35 | 0.97 | 2.74 | 1.220040683 |
| 501 | 7/12/02 | EPA | S1240 E-G/2-4 EPA #5  | 28.6 | 2.94  | 1.73 | -0.25 | 0.49 | 3.08 | 0.69 | 2.81 | 0.848288004 |
| 502 | 7/12/02 | EPA | S1241 E-G/6-8 EPA #1  | 32.8 | 0.13  | 1.8  | 0.79  | 0.54 | 0.59 | 0.7  | 1.38 | 0.884081444 |
| 503 | 7/12/02 | EPA | S1242 E-G/6-8 EPA #2  | 32.9 | 4     | 1.48 | 0.2   | 0.43 | 2.29 | 0.58 | 2.49 | 0.72201108  |
| 504 | 7/12/02 | EPA | S1243 E-G/6-8 EPA #3  | 30.4 | -0.37 | 1.85 | 1.1   | 0.57 | 1.8  | 0.78 | 2.8  | 0.988074531 |
| 505 | 7/12/02 | EPA | S1244 E-G/6-8 EPA #4  | 28.4 | -0.67 | 2.46 | 0.56  | 0.72 | 1.76 | 0.88 | 2.32 | 1.218058209 |
| 506 | 7/12/02 | EPA | S1245 E-G/6-8 EPA #5  | 30.3 | 2.44  | 1.8  | 0.82  | 0.54 | 1.17 | 0.74 | 1.79 | 0.916078599 |
| 507 | 7/12/02 | EPA | S1246 E-G/8-10 EPA #1 | 30.2 | 2.37  | 2.06 | 0.99  | 0.8  | 2.91 | 0.81 | 3.9  | 1.008017857 |
| 508 | 7/12/02 | EPA | S1247 E-G/8-10 EPA #2 | 27.5 | 3.36  | 2.35 | 1     | 0.65 | 0.32 | 0.87 | 1.32 | 1.086001842 |
| 509 | 7/12/02 | EPA | S1248 E-G/8-10 EPA #3 | 28.8 | -0.12 | 2    | 0.49  | 0.6  | 2.89 | 0.84 | 3.18 | 1.032279032 |
| 510 | 7/12/02 | EPA | S1249 E-G/8-10 EPA #4 | 28.7 | -0.92 | 1.88 | 0.86  | 0.57 | 1.77 | 0.77 | 2.63 | 0.958018789 |
| 511 | 7/12/02 | EPA | S1250 E-G/8-10 EPA #5 | 27   | 0.63  | 1.88 | 0.88  | 0.54 | 1.2  | 0.73 | 2.08 | 0.808018824 |

Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for  
Average Total Radium (Th-232+Ra-226) Concentration for

E-G / 4-8 = 4.90 pCi/g  $\lambda = 1.35$   
E-G / 2-4 = 3.17 pCi/g  $\lambda = 0.45$   
E-G / 6-8 = 2.18 pCi/g  $\lambda = 0.60$   
E-G / 8-10 = 2.62 pCi/g  $\lambda = 0.99$





**United States Environmental Protection Agency  
Region V**

**77 West Jackson Blvd.  
Chicago, Illinois 60604**

**Superfund Division  
Emergency Response Branch**

**FACSIMILE COVER SHEET**

**FAX #: 312 353-9176**

**TO:** John Anderson **DATE:** 7/9/02

**COMPANY:** STS **FAX #:** 312-755-6022

**FROM:** Larry Jensen **MAILCODE:** \_\_\_\_\_

**PHONE:** 312-886-5026

**PAGES (including cover sheet):** 7

**MESSAGE:**

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A.5-D.5, 14-15.5  
Date of Verification Survey: 7-8-02  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-8-02  
Tellu Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02 TM. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 7/9/02  
LARRY JENSEN (Print Name)  
SENIOR HEALTH PHYSICIST (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 9-13

Date of Verification Survey: 7-8-02

Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature]

Date 7-8-02

John Anderson

(Print Name)

Records Manager

(Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02 The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature]

Date 7/9/02

HARRY JENSEN

(Print Name)

SENIOR HEALTH PHYSICIST

(Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-5-E, 13-14  
Date of Verification Survey: 7-8-02  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-8-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02 The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Larry Jensen for Verneta Simon Date 7/9/02  
LARRY JENSEN (Print Name)  
SENIOR HEALTH PHYSICIST (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-E, 9-11

Date of Verification Survey: 7-8-02

Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson

Date 7-8-02

John Anderson (Print Name)

Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Larry Jensen for Vernetta Simon

Date 7/9/02

LARRY JENSEN (Print Name)

SENIOR HEALTH PHYSICIST (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-E, 11-13  
Date of Verification Survey: 7-8-02  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-8-02  
Todd Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02 [Signature]. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 7/9/02  
LARRY JENSEN (Print Name)  
SENIOR HEALTH PHYSICIST (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A.5-D, 15.5-17  
Date of Verification Survey: 7-8-02  
Time of Verification Survey 9:00 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 7-8-02  
Tolte Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  
7/9/02. The results of this survey indicate that the verificatic  
criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

[Signature] Date 7/9/02  
LARRY JENSEN (Print Name)  
SENIOR HEALTH PHYSICIST (Print Title)

For U.S. EPA Region V

T.1  
6/24/02

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: D-E, 6-9  
Date of Verification Survey: 6-24-02  
Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 6-25-02  
JOHN ANDERSON (Print Name)  
RECORDS MANAGER (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/25/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Veeneta Simon Date 6/25/02  
Veeneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V



FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-D, 2-6  
Date of Verification Survey: 6-24-02  
Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 6-25-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/25/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Veneta Simon Date 6/25/02  
Veneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 6-9

Date of Verification Survey: 6-24-02

Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed: [Signature] Date 6-25-02  
Todd Anderson (Print Name)  
Proconos manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/25/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed: [Signature] Date 6/25/02  
Verneta Simon (Print Name)  
On Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: D-E, 2-6  
Date of Verification Survey: 6-24-02  
Time of Verification Survey 1:00 pm am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 6-25-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/25/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

[Signature] Date 6/25/02  
Verneta Simon (Print Name)  
On-Scene Coordinator (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: C-D, 6-9

Date of Verification Survey: 6-24-02

Time of Verification Survey 1:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Anderson Date 6-25-02

John Anderson (Print Name)

Records manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/25/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Verneta Simon Date 6/25/02

Verneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

11  
6/18/02

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-C, 2-6

Date of Verification Survey: 6-18-02

Time of Verification Survey 10:30 am am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[Signature] Date 6-18-02

John Anderson (Print Name)

Records (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/19/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation

Signed:

Fredrick A. Micke Date 6/19/02

FREDRICK A. MICKE (Print Name)

ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

✓ ✓ ✓

[illegible]
$$\bar{\chi} = 5.138 \text{ pCi/g} \quad \alpha = 0.57$$

Will be redone

J.I.  
6/11/02

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: B-8.5  
Date of Verification Survey: 6-11-02  
Time of Verification Survey 3:00 pm am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

John Paul Date 6-11-02  
John Anderson (Print Name)  
Records Manager (Print Title)



STS Consultants, Ltd.  
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/12/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Fredrick A. Micke Date 6/12/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V

FORM 223-1  
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-B 2-6  
Date of Verification Survey: 6-11-02  
Time of Verification Survey 3:00 PM am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

*John Anderson* Date 6-11-02  
John Anderson (Print Name)  
Reconps Manager (Print Title)



STS Consultants, Ltd.  
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The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 6/12/02. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

Fredrick A. Micke Date 6/12/02  
FREDRICK A. MICKE (Print Name)  
ON-SCENE COORDINATOR (Print Title)

For U.S. EPA Region V



Exclusion Zone Confirmatory Samples for June 11, 2002

| Sample | Sample  | Sample | Description          | Weight | U-238    | U-238       | Th-232   | Th-232      | Ra-226   | Ra-226      | Total Radium | Total Radium |
|--------|---------|--------|----------------------|--------|----------|-------------|----------|-------------|----------|-------------|--------------|--------------|
| ID     | Date    | Group  |                      |        | Activity | Uncertainty | Activity | Uncertainty | Activity | Uncertainty | Activity     | Uncertainty  |
| 89     | 6/11/02 | EPA    | S1050 B-8.5 EPA #1   | 36.5   | 1.61     | 1.95        | 2.12     | 0.57        | 1.86     | 0.76        | 3.98         | 0.96         |
| 90     | 6/11/02 | EPA    | S1051 B-8.5 EPA #2   | 34.1   | 2.96     | 2.2         | 4.44     | 0.63        | 2.98     | 0.81        | 7.42         | 1.026157883  |
| 91     | 6/11/02 | EPA    | S1052 B-8.5 EPA #3   | 34.4   | 1.76     | 2.3         | 1.14     | 0.66        | 2.43     | 0.89        | 3.57         | 1.108016245  |
| 92     | 6/11/02 | EPA    | S1053 B-8.5 EPA #4   | 35.2   | 3.34     | 2.07        | 1.58     | 0.59        | 2.43     | 0.8         | 4.01         | 0.994032193  |
| 93     | 6/11/02 | EPA    | S1054 B-8.5 EPA #5   | 35.7   | 5.35     | 2.6         | 1.33     | 0.72        | 1.68     | 0.94        | 3.01         | 1.184060809  |
| 94     | 6/11/02 | EPA    | S1055 A-B/2-6 EPA #1 | 25.8   | 1.58     | 1.88        | 2.24     | 0.56        | 3.25     | 0.73        | 5.49         | 0.920054346  |
| 95     | 6/11/02 | EPA    | S1056 A-B/2-6 EPA #2 | 26.9   | 2.11     | 2.12        | 1.8      | 0.6         | 3.17     | 0.81        | 4.97         | 1.008017857  |
| 96     | 6/11/02 | EPA    | S1057 A-B/2-6 EPA #3 | 28.3   | 2.53     | 2.28        | 3.44     | 0.65        | 2.69     | 0.87        | 6.13         | 1.086001842  |
| 97     | 6/11/02 | EPA    | S1058 A-B/2-6 EPA #4 | 27.1   | -0.79    | 2.12        | 2.11     | 0.64        | 3.26     | 0.84        | 5.37         | 1.056030303  |
| 98     | 6/11/02 | EPA    | S1059 A-B/2-6 EPA #5 | 25.3   | 2.73     | 2.53        | 1.74     | 0.74        | 2.75     | 0.96        | 4.49         | 1.212105606  |

Average Total Radium (Th-232+Ra-226) Concentration for B-8.5=

4.398 pCi/g

$$\bar{x} = 1.74$$

Average Total Radium (Th-232+Ra-226) Concentration for A-B/2-6=

5.29 pCi/g

$$s = 0.61$$